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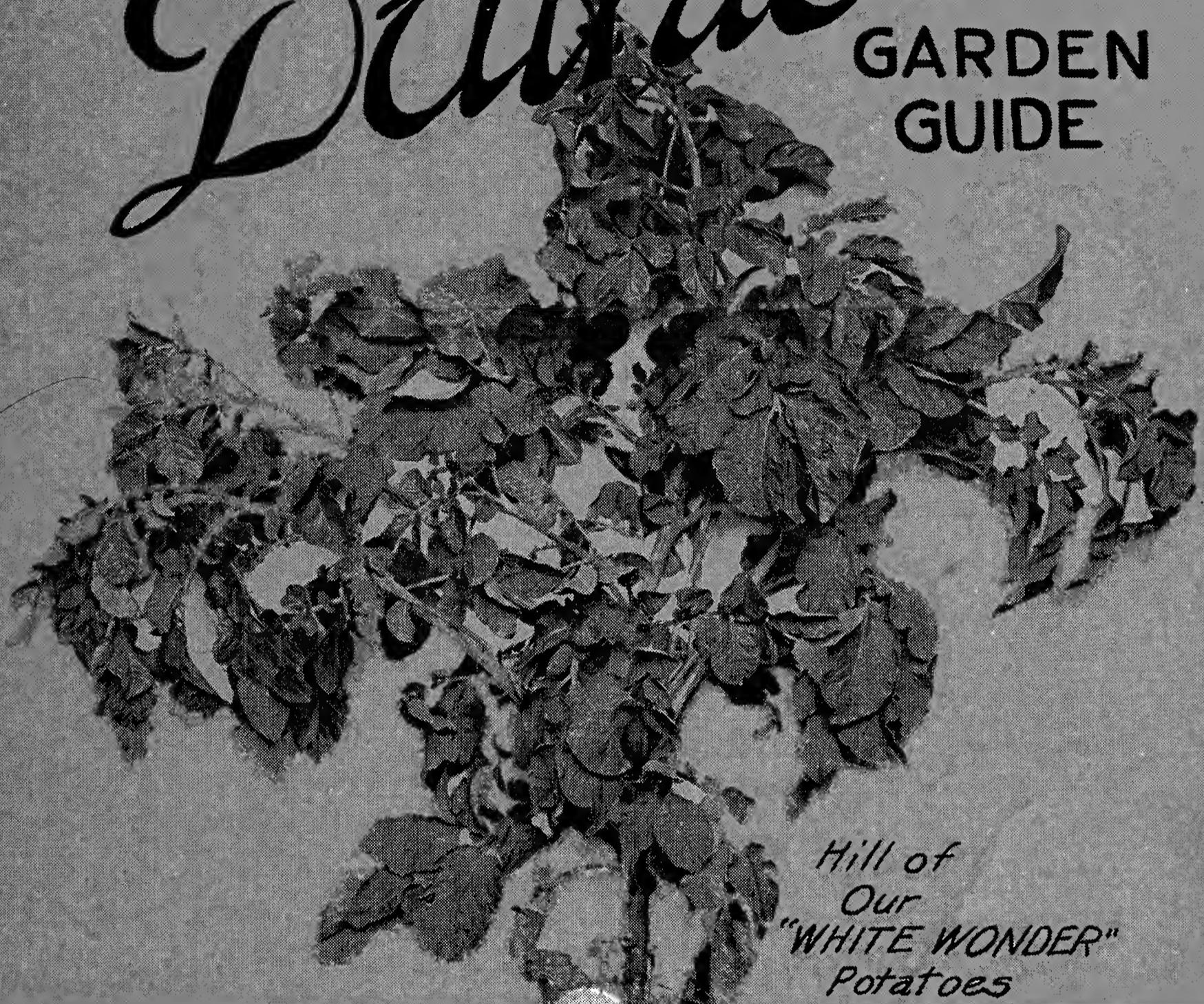


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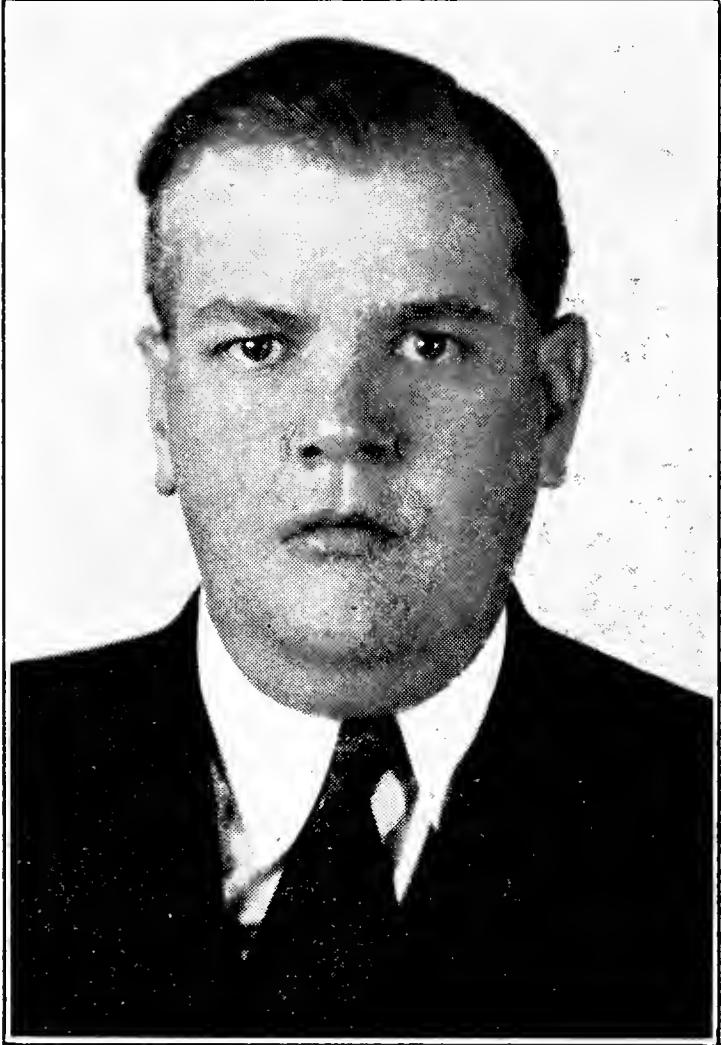
INDEXED

1934

Duthie's  
GARDEN  
GUIDE



DUTHIE SEED COMPANY  
LEWISTON, IDAHO.  
SPOKANE, WASHINGTON.



Meet (Ralph) R. W. Neville  
President and Manager of our  
Spokane Store

To many of our customers Mr. Neville, or Ralph, as he is better known, will need no introduction. Ralph has had twenty-five years experience in the seed business with the Spokane Seed Co., and was with them until they discontinued the wholesale and retail seed part of their business. Ralph will be pleased to have his old friends call on him at our Spokane store, 510 Main Ave. Orders sent to our Spokane store will be given his personal supervision.

Duthie Seed Company.

## Supreme Quality Seeds

Seeds sold under our Supreme Brand are grown and selected with the greatest possible care. Each lot of seed is labeled and handled separately, double cleaned and in most cases hand picked.

Germination tests are made of each and every lot and we know before they ever reach you that they will grow and make you a bountiful crop of the highest quality.

No seeds are grown or purchased at low prices from irresponsible growers, but on the contrary we grow most of our seeds under our own supervision and the remaining lots are contracted from large growers, with years of experience and reputation for growing quality seeds.

You can be assured in purchasing "Supreme Quality" seeds that you obtain newest varieties of merit, highest germination and purity, and that your crop will be the very finest.

DUTHIE SEED COMPANY.

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"Our Seeds Grow Friends"

# Vegetable Seeds

## With General Directions for Cultivation

It should always be remembered that many vegetables are much affected in their habit of growth of plant and size, form and quality of the fruits by conditions of soil, climate, location and mode of culture which are often beyond our control, and our descriptions are for what may be expected under conditions that are approximately normal and favorable for good development.

The cultural directions in this catalog are necessarily limited but they are as complete as space permits.

## Asparagus

One ounce of seed will produce 300 or more plants.

**CULTURE**—It will require two or three seasons to produce a marketable crop of asparagus from seed, but this method is often superior to root planting as better plants can be selected for the permanent beds. Asparagus grows better and produces earlier in the spring if planted in well-drained soil having a southern exposure. Plant eighteen inches apart in rows three and one-half feet apart.

**MARY WASHINGTON**—A most remarkable Asparagus which has been developed by the United States Department of Agriculture. The plants form large clean shoots which are thick and heavy. The color is rich dark green, tinted darker at the tips. It is a heavy yielder and a long-lived producer of exceptionally fine flavor. Price postpaid 3rd zone. Pkt. 5c; oz. 20c; 2 oz. 35c; pound \$1.75.

**PALMETTO**—The old standard variety widely used. Stalks are greenish in color and of excellent quality. Postpaid. Pkt. 5c; oz. 15c; 2 oz. 25c; 1 pound \$1.00.

See Page 21 for Plants



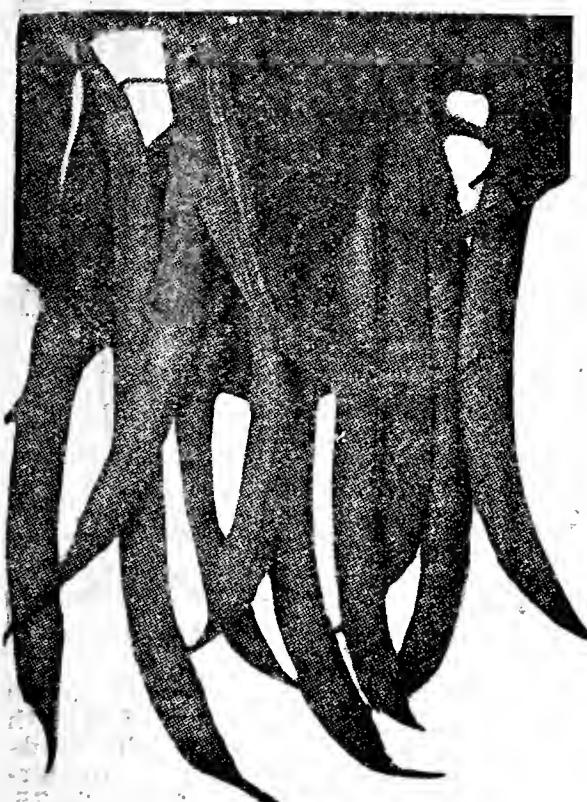
Mary Washington

## Garden Beans

One pound will plant 100 feet of drill.

**CULTURE**—Plant in warm, loamy soil at the beginning of warm weather, and at intervals for succession until August. Rows may be made two feet apart, and the beans planted two to four

inches apart in the drills, or three or four beans in hills six to eight inches apart. Cultivate and hoe frequently when the vines are dry.



Burpee's Stringless Green-Pod

## Green-Podded Varieties

**BURPEE'S STRINGLESS GREEN-POD**—One of the earliest; round podded, always stringless, tender and crisp. 42 days. Finest green-pod bush bean in cultivation. This famous snap bean is unequalled. Plants are large of somewhat spreading growth, with dark green foliage, and always of strictly bush form. The pods are medium in length, slightly curved, and are so thick, even when quite young, as to be double-barreled. The pods are an attractive rich green. Burpee's Stringless Green-Pod is enormously productive and combines this feature with hardiness and extreme earliness. The pods are meaty and juicy, lacking the faintest signs of any strings. They are tender, brittle, and of very fine flavor. Prepaid 3rd zone. Carton 10c; 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25.

**GIANT STRINGLESS GREEN-POD**—The plants are of strong growth, and bear a fine crop of pods. The pods are meaty, nearly round, brittle and stringless. Somewhat similar to Burpee's Stringless Green-Pod, but matures a few days later. The color of the pods is lighter than Burpee's Stringless Green-Pod and they show deeper depressions between the beans. Carton 10c; 1 pound 30c; 5 pounds \$1.35; 10 pounds \$2.25.

**EARLY RED VALENTINE**—A choice variety for early use. Pods are of excellent quality. A favorite where moisture is limited. Carton 10c; 1 pound 30c; 5 pounds \$1.35; 10 pounds \$2.25.

**EARLY SIX WEEKS**—One of the earliest green-pod varieties. The beans are of excellent quality if harvested when quite small. A choice variety for early home use. Used in some short season sections as a dry bean for winter use. Carton 10c; 1 pound 25c; 5 pounds \$1.25; 10 pounds \$2.25.

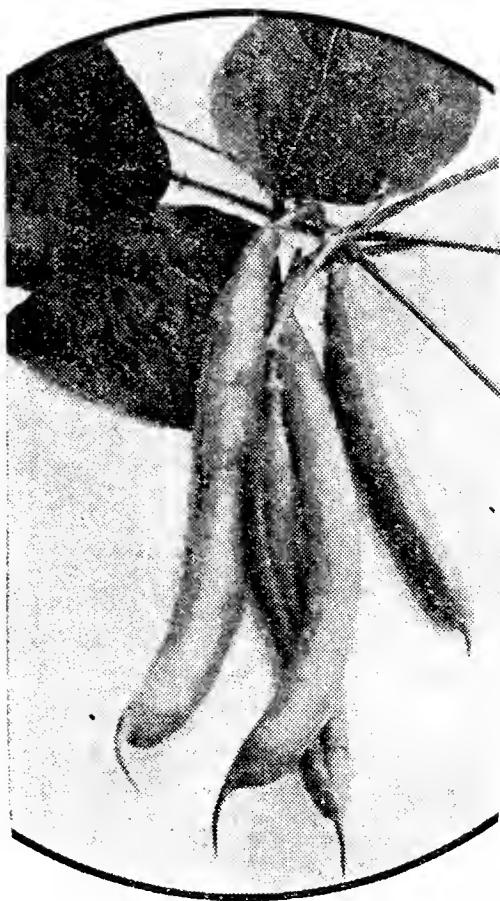
**REFUGEE OR 1000 TO 1**—A late variety. Pods very slender and brittle, of good quality, suitable for planting for late canning. Carton 10c; 1 pound 25c; 10 pounds \$2.00.

**DWARF HORTICULTURAL**—Excellent either as a snap or shell bean. 60 days. Also called Cranberry and Italian bean. A bush bean with large green pods, splashed with carmine. Seed pale buff mottled pink. Carton 10c; 1 pound 30c; 5 pounds \$1.25.

**STRINGLESS REFUGEE**—A splendid improvement on the Refugee Thousand to One, with which it compares in season and earliness, but is absolutely stringless. Pods are round, more even in length, possibly a little lighter green in color, exceedingly tender and of a delicious flavor. A splendid bean both for snap and canning purposes. Carton 10c; 1 pounds 30c; 5 pounds \$1.35.

## GARDEN BEANS—Continued

### Wax-Podded Varieties



Duthie's Stringless Wax

**DUTHIE'S STRINGLESS WAX**—A most prolific variety of superlative quality. The handsome rich yellow pods are slightly curved, averaging 6 to 7 inches in length. They are almost round, very meaty and sweet, and perfectly stringless at all stages. The habit of the plant is free branching, but sturdy and upright, every branch carrying a heavy crop of the magnificent pods. Valuable for its productiveness and disease-resisting qualities. Has all the good features of the Stringless Green Pod and is ready to use at about the same time. Carton 10c; 1 lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.75.

**GOLDEN WAX**—This variety is ready for use with Stringless Green-Pod. The pods are medium in size, flattened and fleshy and of good quality. A good variety for the home garden. Carton 10c; 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25.

**PENCIL-POD BLACK WAX**—This black wax bean produces a very slender type of pod of excellent quality for canning and for market garden use. They are free of strings and are of rich flavor. Carton 10c; 1 lb. 30c; 5 lbs. \$1.35; 10 lbs. \$2.25.

**DAVIS WHITE WAX**—This bean is among the earliest of the yellow-pod varieties in maturity and produces large pods of excellent quality. Carton 10c; 1 lb. 25c; 5 lbs. \$1.15; 10 lbs. \$2.00.

**PROLIFIC BLACK WAX**—This black seeded bean produces a larger pod than the Pencil-Pod Black Wax. The plants are medium early in maturity and are very productive. Carton 10c; 1 lb. 25c; 5 lbs. \$1.15; 10 lbs. \$2.00.

### Pole or Climbing Beans Green and Wax-Pod Varieties

**DELICIOUS GIANT**—Between Oregon Giant and Kentucky Wonder. Twice as productive, equal in size and quality, the easiest bean of all to pick. The beans are produced in clusters of 4 to 6, the stems of which protrude outside the foliage. It is easily possible to pick a pound of beans from three clusters. The flavor is unsurpassed and the pods are so meaty that they shrink very little when cooked. The pods are green, faintly striped with red lines which disappear when cooked. The vines are very vigorous and the pods are more rounded than the Oregon Giant but fully as long. If you like green beans fresh for the table or for canning do not fail to order this. Carton 10c; 1/2 lb. 25c; 1 lb. 40c.

**KENTUCKY WONDER or OLD HOMESTEAD**—An early and productive variety that climbs well and bears a fine crop of large green pods, 7 to 9 inches in length. They are thick and meaty, tender, brittle, and of good quality, showing slight strings as the pods reach full size. Carton 10c; 1 lb. 30c; 5 lbs. \$1.35.

**OREGON GIANT**—The large fleshy pods 10 to 12 inches in length are free from stringiness, tender, crisp and delicious. The size, splendid quality and rich flavor make this one of the most desirable beans for home garden and for canning. "Oregon Giant" is a strong grower and yields heavily, bearing its enormous pods in great clusters. The color is light greenish yellow, splashed red. Carton 10c; 1 lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.50.

**LAZY WIFE**—This bean has large oval white seeds. The plants are later in bloom than Kentucky Wonder; are suitable for green as well as for dry beans. Carton 10c; 1 lb. 30c; 10 lbs. \$2.50.



Kentucky Wonder

**KENTUCKY WONDER WAX**—A variety similar to the green-pod Kentucky Wonder in habits of growth but the pods are bright yellow in color. The seeds are dark brown and somewhat wrinkled in appearance. Carton 10c; 1 lb. 35c; 5 lbs. \$1.50; 10 lbs. \$2.75.

### Lima Beans

**IMPROVED BURPEE BUSH**—A large seeded bush lima somewhat later in maturity than the Henderson bush. This bean will mature at lower elevations. Carton 10c; 1 lb. 40c; 5 lbs. \$1.75.

**HENDERSON BUSH**—A small seeded lima, very desirable for home garden where the season is somewhat short. It is very productive and the dry beans are in demand for market purposes. Carton 10c; 1 lb. 35c; 5 lbs. \$1.50.

**KING OF THE GARDEN POLE LIMA**—A large seeded early variety suitable for planting where the season is long. Carton 10c; 1 lb. 40c; 5 lbs. \$1.75; 10 lbs. \$3.00.

**OREGON POLE LIMA**—The only Bean of its kind that will thrive in our cool climate. It grows a strong, thrifty vine and is very prolific, bearing continuously until frost, the blossoms bursting from the top shoots in long panicles, while the pods can be seen in every stage of development, to the matured beans at the bottom of the vine. Pods are well filled, having three to five large beans of the finest quality. It can be planted in any garden soil as early as April. Give the same care and culture as other Beans. They are at their best when the full green pods begin to turn yellow. Carton 10c; 1 lb. 40c; 5 lbs. \$1.75.

# Beets

One ounce will sow 50 feet of drill; 6 to 8 pounds per acre.

**CULTURE**—For early table beets, have drills 16 to 20 inches apart, and sow the seed about one inch deep, as early as the ground can be put in good shape. Give thorough and clean cultivation, and thin the plants to stand 4 inches apart in the rows. For succession sow at intervals until middle of July. For the earliest sowing a light dressing of Vigoro; say 4 pounds per 100 square feet will work wonders.

Table beets should be grown in every garden as they are produced with little effort and supply the table with greens as well as with excellent roots.

## Table Varieties

**MARKET GARDENER or EARLY WONDER**—This extra early Beet is remarkable for its fine quality and rapid growth; deep red color, and handsome shape; as an early market sort it is unrivaled. It is superseding Egyptian, being earlier in development, more attractive and of superior quality for the table, holding its color and cooking quickly. Market gardeners prefer it as it matures evenly, stands a long time and does not split. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**EARLY BLOOD TURNIP**—A globe-shaped variety which is somewhat flattened. The roots are bright red in color and of uniform texture. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 80c.

**DETROIT DARK RED**—A fine beet for bunching for market; tops exceptionally small and uniformly upright. The roots are perfect turnip shape, with small tap roots. One of the deepest red beets. Quality is of the finest; sweet and tender; best beet for home garden. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 80c.



Mammoth  
Long Red

**EXTRA EARLY EGYPTIAN**—A popular variety used for early planting. The roots are distinctively flattened, the flesh dark red in color. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 80c.

**EXTRA EARLY ECLIPSE**—Round, very early, good size, very tender. Has small top, bright red flesh. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; 1 lb. 80c.



Market Gardener

## Stock Beets or Mangels

Early planting is important on non-irrigated land because of the difficulty in securing a satisfactory germination. The seed should not be planted too deep and the ground should be rolled after planting to pack the surface soil. Later planting can be done under irrigation with favorable results.

**IMPROVED MAMMOTH LONG RED**—This variety grows well above the ground and produces a dark red colored root. It is favorite with many growers. Grows to immense size under favorable conditions. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 50c; 5 lbs. \$2.25.

**GIANT HALF SUGAR ROSE**—We consider this one of the best for stock feeders because of its yield and excellent feeding value. The skin is rose colored and the flesh white. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 50c; 5 lbs. \$2.25.

**DANISH SLUDSTRUP**—This Mangel grows a large portion of the root above the surface soil. The roots are reddish yellow in color, attaining a large size when fully matured. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 50c; 5 lbs. \$2.25.

**GIANT INTERMEDIATE OR YELLOW GIANT**—A variety similar to the Sludstrup but generally considered of higher sugar content. Excellent for stock feed. Prepaid 3rd zone. Oz. 10c; 4 oz. 25c; 1 lb. 50c; 5 lbs. \$2.25.

**GOLDEN TANKARD**—The roots of this Mangel are cylindrical in shape and of a deep orange color. This variety is rich in flavor and of high sugar content. Prepaid 3rd zone. Oz. 10c;  $\frac{1}{4}$  lb. 25c; 1 lb. 50c; 5 lbs. \$2.25.



## Swiss Chard

Four pounds per acre required

Every home garden should contain a few rows of this leafy vegetable. The top only is suitable for food, using the tender leafy portion for greens. The plants grow rapidly and produce a good crop early in the spring before other leafy crops are ready. Poultrymen grow this crop for green feed for use during the early spring.

**LUCULLUS**—This leafy variety produces large curly leaves with tender white stems. If cut often will continue to produce until hot weather. Prepaid 3rd zone. Pkt. 5c; 1 oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 pound 85c.

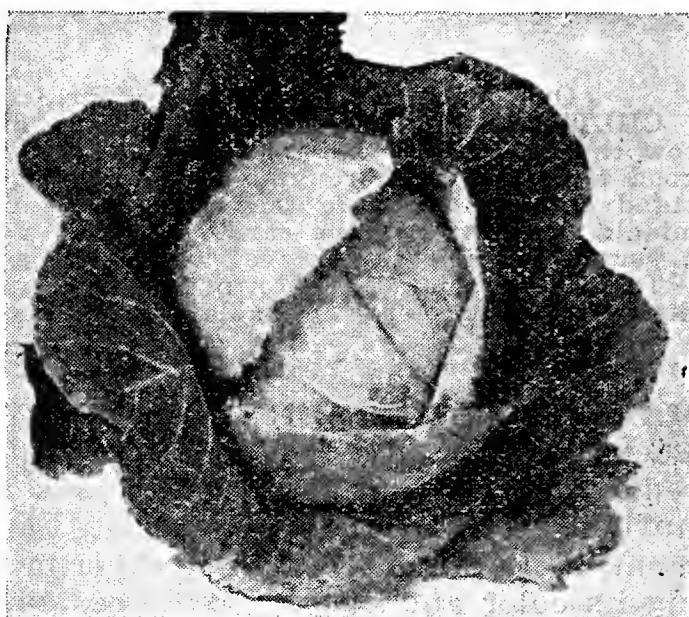
# Cabbage

Sow one ounce for 2,000 plants; four to six ounces per acre.

**CULTURE**—For plants of the earliest sorts, sow seed in January or February under glass and transplant into flats 2 inches apart. Set out as early as season will permit, spacing the plants 24 inches apart in the rows, and rows 3 feet to permit cultivation. For late plants, the seed may be sown as late as June.

**EARLY JERSEY WAKEFIELD**—One of the earliest varieties, producing conical shaped heads. The heads of this cabbage are not as large as those of the Flat type, yet it is valuable for its earliness. Pkt. 5c; oz. 20c; 4 oz. 60c; 1 lb. \$1.85.

**GOLDEN ACRE**—We consider this the best variety for early market use. It is a selection from Copenhagen Market. The heads are round, very compact, solid and early in maturity. Postpaid 3rd zone. Pkt. 5c; oz. 30c; 4 oz. 85c; 1 lb. \$2.75.



Golden Acre

**COPENHAGEN MARKET**—One of the standard varieties of flat headed cabbage for medium early use. Pkt. 5c; oz. 25c; 4 oz. 75c; 1 lb. \$2.25.

**EARLY FLAT DUTCH**—This cabbage is similar in type to the Late Flat Dutch but has been selected for early maturity. Oz. 20c; 4 oz. 60c; 1 lb. \$1.75.

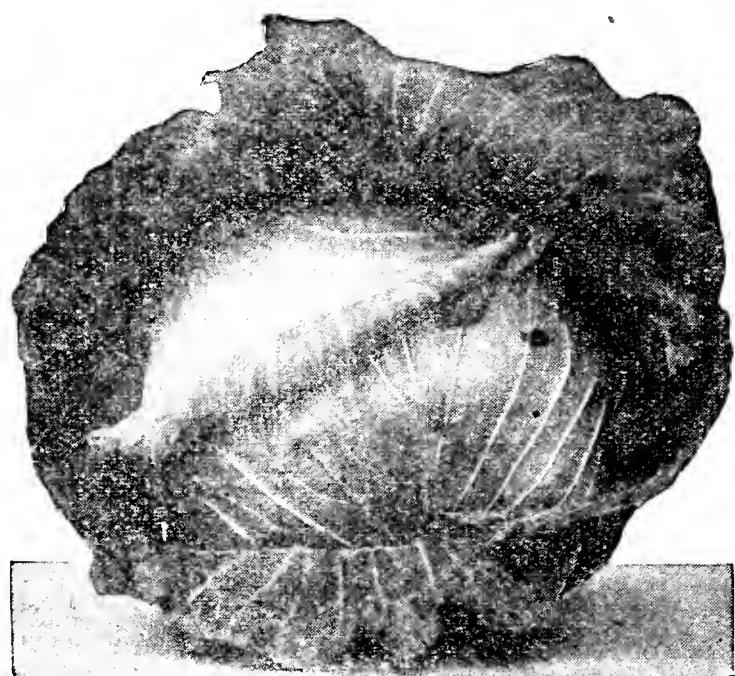
**GLORY OF ANKHUIZEN**—A medium early variety with large round solid heads desirable for main crop planting where the season is short. Pkt. 5c; oz. 25c; 4 oz. 75c; 1 lb. \$2.00.

**DANISH BALL HEAD**—The most popular late variety; head round, firm, fine grained. A good keeper. Pkt. 5c; oz. 25c; 4 oz. 75c; 1 lb. \$2.00.

**PREMIUM LATE FLAT DUTCH**—An improved old standard variety. Sure header. Pkt. 5c; oz. 25c; 4 oz. 75c; 1 lb. \$2.00.

**HOLLAND EXPORT**—Excellent red. Pkt. 5c; oz. 25c; 4 oz. 75c; 1 lb. \$2.00.

**CHINESE CABBAGE**—Resembles Cos Lettuce. Pkt. 5c; oz. 25c; 4 oz. 75c; 1 lb. \$2.00.



Copenhagen Market

## Broccoli

**ITALIAN GREEN SPROUTING**—A plant of the cauliflower family which, after the first head has been harvested produces branching sprouts on which are small loose heads, two inches in diameter, which are cooked like cauliflower. The flavor is delicate and delicious. Pkt. 25c; oz. 60c; 1/4 lb. \$1.75.

## Cucumbers

One ounce will plant fifty hills; two pounds will plant one acre.

**CULTURE**—For very early cucumbers, sow April 1st, in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground, in rich soil, when danger of frost is over. For early use, plant in hills 4 to 6 feet apart each way; thin out to four of the strongest plants to each hill, after all danger of insects is over. Cucumbers should be gathered when large enough for use, whether required or not, if left to ripen, it destroys their productiveness.

**BOSTON PICKLING**—One of the best known varieties for general use. The fruits are short, of medium size and suitable for pickling as well as slicing. Is early and very productive.

**DAVIS PERFECT**—We recommend this variety as one of the best general purpose cucumbers. The fruits are dark green in color tapering toward the ends, of good size and excellent quality. A choice variety for market.

All Cucumbers postpaid 3rd zone. Pkt. 5c; 1 oz. 15c; 4 oz. 35c; 1 lb. \$1.00.



No. 1 Boston Pickle; No. 2 Davis Perfect;  
No. 3 Early Cluster; No. 4 White Spine

## CUCUMBERS—Continued

**CHICAGO PICKLING CUCUMBER**—One of the most popular of the small early pickle varieties. It has square ends, smooth skin, is enormously productive and very disease resistant. The ideal type for very early uniform pickles. The fruits average 6x2½ inches when fully developed.

**EARLY CLUSTER**—The fruits of this variety are small in size and desirable for pickling.

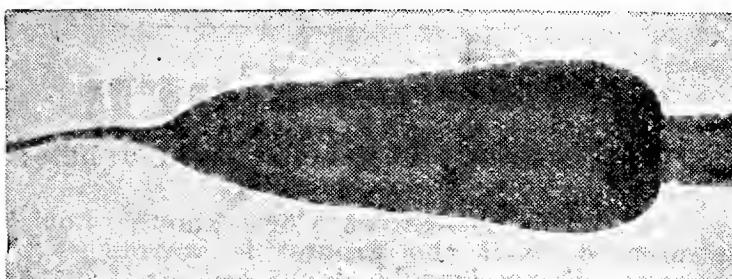
**IMPROVED LONG GREEN**—This variety is generally grown for commercial use as a slicing cucumber. It is medium late in maturity, the fruits are long and tapering and of dark green color.

**IMPROVED WHITE SPINE**—One of the earliest of the Spine varieties with medium large fruits of mild flavor and crisp quality.

**EVERBEARING**—An early and heavy producer for small pickles. It bears continuously throughout the season. The dark green cucumbers are 5 inches long and 1½ inches thick.

**LEMON CUCUMBER**—A variety with lemon shaped fruits and medium early in maturity.

All Cucumbers postpaid 3rd zone. Pkt. 5c; 1 oz. 15c; 4 oz. 35c; 1 lb. \$1.00.



New Red Cored Chantenay

**NEW RED CORED CHANTENAY**—Tops are shorter and the foliage finer than the regular Chantenay. Strong tops, making bunching easy. The outstanding features of the strain are the smoothness of the roots, the excellent color of both the exterior and interior, the tenderness of the core, and the very uniform and perfect stumping. The stock is very even and a little earlier than the regular Chantenay. Price, Pkt. 5c; oz. 20c; ¼ lb. 55c; 1 lb. \$1.50.

**DANVERS HALF LONG**—(65 days). The heaviest yielding half-long variety. One of the best for general crop and a profitable variety for market gardeners. Danvers is productive in all classes of soil. The color is a bright orange-scarlet and the core is rather definite. The tops are a little larger than Chantenay. While of table quality, the heavy yield also makes Danvers suitable for a stock Carrot. Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25; 5 lbs. \$5.50.

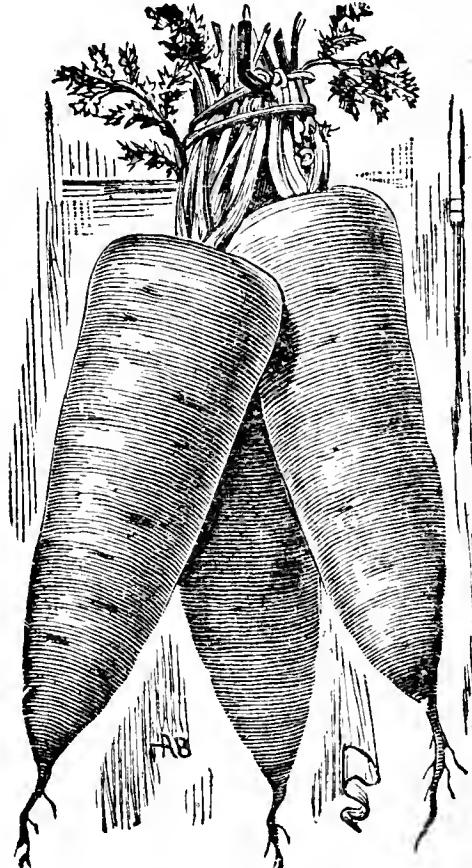
**CHANTENAY**—We recommend this variety very highly for the market garden trade as well as for home use. The roots are tapering and stumped at the base making them more easily harvested in heavy soil. This variety is equal to the Danvers Half Long in quality and is productive. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. \$1.25; 5 lbs. \$5.50. Prepaid.

**OXHEART**—A short stump rooted variety, very popular for planting on heavy soil. Also suited to early harvest for market purposes. Prepaid. Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25; 5 lbs. \$5.50.

**CORELESS OR HALF LONG NANTES**—A handsome half long variety, almost perfectly cylindrical, blunt-ended, and with a very small tap-root. The carrots are 6

**CULTURE**—One ounce to 200 feet of row; 2 to 4 pounds per acre. Any good soil will grow Carrots. Well grown and perfect roots develop only in rich, loose soil, preferably sandy loam, or even clear sand when well fertilized and kept moist. In rich, loose soil no thinning is necessary except for the purpose of getting large, perfectly formed Carrots. The flavor and tenderness of table varieties is secured by quick, unchecked growth. For winter use store Carrots in slightly moist sand or sandy loam in a root cellar.

## Carrots



Danvers Half Long

inches long and 1½ inches thick. Both the skin and flesh are bright orange-red. Sweet and very tasty. Pkt. 5c; oz. 15c; ¼ lb. 45c; 1 lb. \$1.25; 5 lbs. \$5.50.

### Stock Carrots

**LONG ORANGE**—This variety is grown extensively for stock feeding and is very popular because of its color, size and yield. Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 80c.

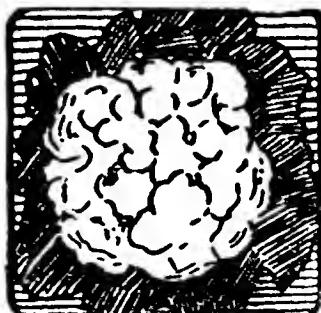
**WHITE BELGIAN**—As some growers prefer a white carrot, we offer this as a choice variety for stock feeding. A portion of the root grows above the soil so it is easily harvested. Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 80c.

**LARGE YELLOW BELGIAN**—This variety is similar to the Large White Belgian but the skin is a pale orange color. The flesh is also light orange. Pkt. 5c; oz. 15c; ¼ lb. 30c; 1 lb. 80c.

**YELLOW GIANT OR SAN JOSE CHAMPION**—This carrot is a half-long variety, with an immense broad shoulder. The roots penetrate less than one-half the depth into the ground. Color a bright yellow. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 80c; 5 lbs. \$3.50.

### Make the Garden Pay

**FREE WITH YOUR SEED ORDER**—Valuable 80 page booklet containing information on planting and care of vegetables, disease, insect control, fertilizing, thinning out plants, storing vegetables and much other valuable information. Free with \$2.50 Garden or combination Garden and Flower Seed order.



Early Snowball

## Cauliflower

One ounce will produce 3,000 plants.

**CULTURE**—For early cauliflower sow seed in hot bed and transplant to cold frame 2 inches each way. Set plants in permanent gardens same as cabbage. To blanch draw leaves about the head; tie with tape.

**EARLY SNOWBALL**—Our strain of Snowball is especially selected for uniformity, early maturity and quality. Pkt. 5c;  $\frac{1}{4}$  oz. 50c; 1 oz. \$1.25.

**DANISH DRY WEATHER**—This variety is somewhat later than Snowball. Quite resistant to drought. Postpaid 3rd zone. Pkt. 5c;  $\frac{1}{4}$  oz. 50c; 1 oz. \$1.25; 4 ozs. \$5.00.

**"MT. HOOD" SNOWBALL**—The seed that produces those handsome large white solid heads that bring big profits to the gardener. It is the best strain of "Early Snowball" obtainable. We recom-

mend "Mt. Hood" Snowball for either early or late planting. Pkt. 5c;  $\frac{1}{4}$  oz. 75c;  $\frac{1}{4}$  oz. \$2.00;  $\frac{1}{4}$  lb. \$7.00.

## Sweet Corn

One pound will plant about 100 hills; 8 lbs. per acre

**CULTURE**—Sweet Corn should not be planted until the ground is warm, as the seed will rot in cold, damp soil, or if planted too deep. Late in April is early enough for first plantings, and for succession plant every two weeks through May and June. Cover the first planting very lightly, increasing the depth a little for the later plantings. For the Dwarf Early varieties, rows should be three feet apart; for later large varieties, four feet and the hills two or three feet in the rows.

Sweet or Sugar varieties are used both for table and stock feeding, some of the large later sorts being preferred for silos and fodder.

**GOLDEN BANTAM** — Standard, 8 Rows—Golden Bantam is the best known early yellow variety. Plants grow five to six feet tall, bearing one or two ears to a stalk, which are six to seven inches in length, and run consistently 8 rows on an ear. Our strain produces market ears early, comes on evenly, has an excellent flavor, and produces heavily. We sell more of this kind than any other sweet corn. Carton 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 5 lbs. \$1.25. Postpaid.

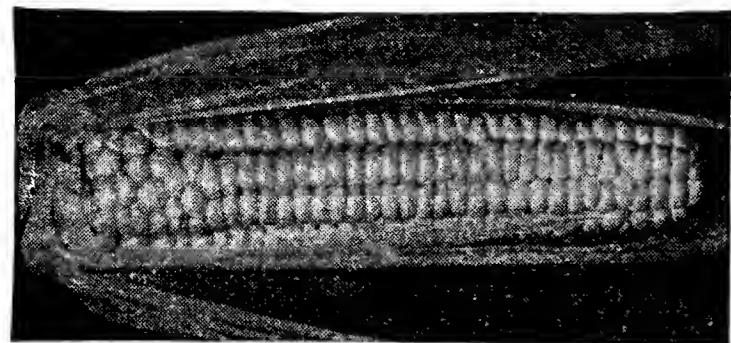
**GOLDEN GIANT (De Lues Strain)**—It makes a low growth, but sturdy, and develops several branches to a plant. It yields well, bearing fine large ears, twelve to sixteen rows. A very popular sort to follow the early kinds. Carton 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 5 lbs. \$1.25. Postpaid.

**GOLDEN SUNSHINE**—(60 days). The same flavor and color as Golden Bantam, but 10 days earlier. The ears are also larger, being 12-rowed instead



Golden Sunshine

of 8. Sunshine Corn is ready as early as the early white corns, it is early enough to be off the market before Golden Bantam is ready. Dr. Yeager of the North Dakota Experimental Station developed Golden Sunshine by crossing Golden Bantam with Portland Early Market. The plant is dwarf and the ears close to the ground. We have grown a large seed acreage of Golden Sunshine, anticipating a big demand; do not disappoint us by missing this excellent variety. Postpaid. Carton 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 5 lbs. \$1.25.



Golden Gem

**GOLDEN GEM**—Developed by Prof. A. F. Yeager and introduced by the North Dakota Agricultural Experiment Station. The earliest yellow variety; very dwarf, with rather small ear; very valuable to the market

gardener in reaching the earliest market. Stalks frequently bear 2 ears; ears 8 rowed. Kernels deep yellow, tender, exceptionally sweet, and of good flavor. Carton 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 35c; 5 lbs. \$1.25.

## CORN—Continued

**GOLDEN EARLY MARKET, OR GOLDEN WEST**—Our trials show this kind to be the earliest large sweet corn of golden color. It has an excellent flavor, plants show vigorous growth, in height about the same as Bantam, and put on large size ears running twelve to fourteen rows of evenly shaped kernels. This variety has become very popular among market gardeners because of its earliness, nice color and flavor, and its size. Carton 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 5 lbs. \$1.00.

**PEEP O'DAY**—While this variety of corn is very small in size it is the earliest variety we have found for home use. Several ears are produced on each stalk and the corn is very sweet in flavor. Carton 10c; lb. 25c; 5 lbs. \$1.00.

**EARLY MINNESOTA**—One of the old standard varieties for home use. It is slightly earlier than Golden Bantam, producing large white ears. Carton 10c; lb. 25c; 5 lbs. \$1.00.

**STOWELL'S EVERGREEN**—This late variety is used for late market. It is often planted for stock

feed in the early fall. The stalks are very leafy, medium tall and excellent for stock feed. Carton 10c; lb. 25c; 5 lbs. \$1.00.

**BLACK MEXICAN**—Many market gardeners prefer Black Mexican for market following Golden Bantam. The matured grains are purple in color but are white when the corn is in proper condition for market. Carton 10c; lb. 25c; 5 lbs. \$1.00.

**COUNTRY GENTLEMAN**—This late variety will not mature at higher elevations but can be grown for late market use in irrigated sections at low elevations. The grains are produced in irregular pattern on the cob. Carton 10c; lb. 25c; 5 lbs. \$1.00.

**PORTLAND EARLY MARKET**—One of the very early white varieties. This plant makes a sturdy dwarf-like growth, the ears, two or three to the stalk, growing close to the ground, and have twelve to fourteen even rows of large size kernels. It yields very well and has good flavor for such an early kind. Carton 10c;  $\frac{1}{2}$  lb. 20c; 1 lb. 30c; 5 lbs. \$1.00.

## POP CORN

**GOLDEN SUNBURST**—The finest of all popcorn. This corn, as its name implies, is a rich golden yellow and retains a buttery yellow appearance when popped. It also contains vitamines essential to high food value and has been bred up for a number of years by the individual ear test method for high popping volume. The seed that we offer is all ear tested stock of high popping value. Postpaid: Pkt. 15c; 1 lb. 25c; 5 lbs. \$1.00.

**JUMBO OR LARGE WHITE PEARL**—The largest popcorn that grows; much prized by popcorn stands and candied corn makers on account of its immense kernels. Pure white and very early in maturity. Prepaid: 1 lb. 25c; 5 lbs. \$1.00.

**MONARCH WHITE RICE**—The popular variety for popping. Everybody known this old favorite sort. Three ears on a stalk is not a rare occurrence, maturing its long slender ears in 120 days. The white grains are sharply pointed. Very popular. Postpaid. Carton 15c; lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00.

## Celery

One ounce will produce 5,000 plants

**GOLDEN SELF-BLANCHING**—A very early variety, requiring little labor to blanch. The plants are stocky, medium in size, with golden heart. Very tender and crisp. Prepaid 3rd zone. Pkt. 5c; oz. 25c; lb. \$3.00.

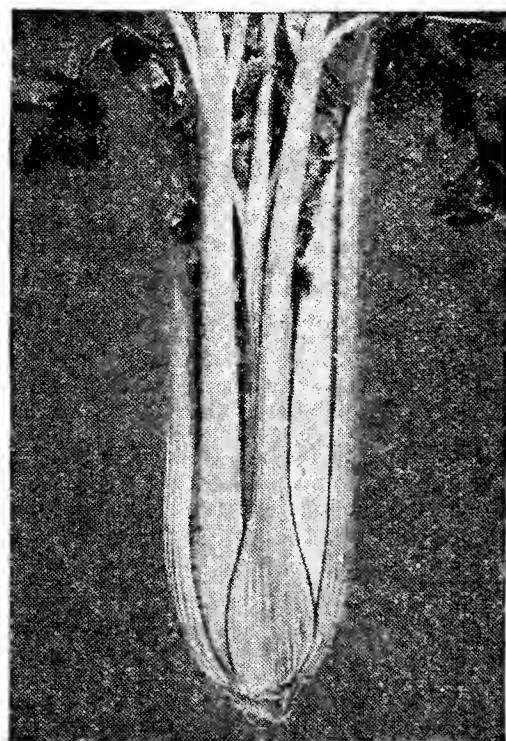
**WHITE PLUME**—An early main crop variety. The leaves are bright green with light tips, the inner leaves white. Prepaid 3rd zone. Pkt. 5c; oz. 20c; lb. \$2.00.

**WINTER QUEEN**—This is without doubt the most valuable variety of celery for Winter and Spring use ever introduced. Has double the amount of heart of any known celery. The plant has a fine appearance, of compact growth, and blanches to a beautiful cream-white. Ribs perfectly solid, crisp and a delicious nutty flavor. Stored for Winter or Spring use, it is an excellent keeper and when taken out the blanched stalks will be firm and crisp; entirely free from strings; brittle and of sweet flavor. Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.

**EASY BLANCHING**—A new variety. Whitish-yellow heart with green leaves. Pkt. 15c; oz. 35c.

**GOLDEN PLUME SPECIAL**—A cross between Easy Blanching and Golden Self Blanching that is very hardy and unusually free from blight. We carry a fine strain and popular with gardeners. Pkt. 15c;  $\frac{1}{4}$  oz. 50c; oz. \$1.00;  $\frac{1}{4}$  lb. \$3.50; lb. \$12.50.

**CELERIAC or TURNIP ROOTED CELERY, EUREKA**—The roots are turnip shaped and are used for soups and stews. They are very hardy and will stand in the open all winter in the coast regions. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 90c.

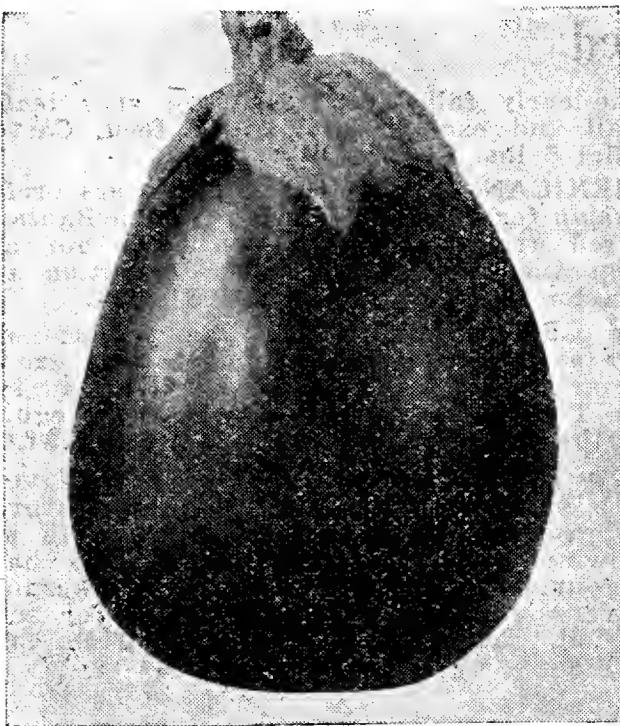


Winter Queen

for Better Vegetables  
**VIGORO**  
Specially prepared plant food

FERTILIZERS ARE CHEAP

See Fertilizer Page For New Low Prices on Vigoro



## EGG PLANT

One ounce will furnish about 2,000 plants

**CULTURE**—Start the plants under glass in hot-bed and transplant to field after all danger of frost is over. Space the plants 24 inches in the rows and rows wide enough to cultivate. Fertilize the soil with Vigoro, using about 500 pounds per acre.

**BLACK BEAUTY**—The fruits of this variety are very dark in color and they are earlier than those of the New York Purple. Pkt. 5c; 1 oz. 40c; 4 oz. \$1.25; 1 lb. \$4.50.

**NEW YORK PURPLE**—One of the main market garden varieties with large oval fruits of deep purple color. Pkt. 5c; oz. 40c; 4 oz. \$1.25; 1 lb. \$4.50.

## CRESS

**CURLED or PEPPER GRASS**—This salad is much used with lettuce, to which its warm pungent taste makes an agreeable addition. The seed should be sown in drills about 16 inches apart, on very rich ground, and the plants well cultivated. It may be planted very early. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c.

**CRESS—(Water)**—Hardy perennial aquatic plant; sow seed along water's edge, preferably near running springs. 45 days. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.10. Postpaid.

## ENDIVE

One oz. will plant 100 ft. row; 4 pounds per acre.

**CULTURE**—Endive makes a very fine salad, as the leaves are very tender, crisp, with a pleasant flavor. May be used as trimmings for fancy dishes in same manner as lettuce. Plant the seed in the permanent row early in the spring and thin to space the plants about 2 inches in the row. After the plants form a compact leaf growth, pull the outer leaves up around those in the center and tie with cord to assist in bleaching out the inner leaves.

**GREEN CURLED**—The leaves of this variety are deep green in color with white ribs. When the plants are tied into a compact mass, the leaves blanch to a creamy white. Prepaid. Pkt. 5c; 1 oz. 15c; 4 oz. 45c;  $\frac{1}{2}$  lb. 75c; 1 lb. \$1.25.



Green Curled

## KOHL RABI

We suggest using Kohl Rabi in place of Turnips where the soil is infected with worms as this turnip-like plant is not damaged to any extent.

**EARLY WHITE VIENNA**—The skin of this variety is light in color and the flesh white. It is very early in maturing and has a fine flavor. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75. Postpaid.

**PURPLE VIENNA**—Similar to the White Vienna in maturity, but the skin is of a deep purplish color, the flesh white. Postpaid. Pkt. 5c; oz. 20c; 2 oz. 35c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$1.75.

## MUSTARD

1 oz. will plant 100 ft. of row; 3 lbs. per acre.

**CULTURE**—Mustard may be sown early and in succession for continuous crop. Sow in rows on a fine but firm seed-bed, thinning the plants to 4 inches in the rows. The tender leaves may be cut from the stalks and by careful harvest will reproduce for later crop. A fine succulent vegetable for greens and salad.

**GIANT SOUTHERN CURLED**—An excellent variety for greens. It makes a rapid growth of tender, spicy leaves, retaining its crispness until nearly matured. Pkt. 5c; oz. 15c; 4 oz. 30c; lb. \$1.00.

## KALE

$\frac{1}{4}$  oz. will plant 100 ft. row; 2 lbs. per acre.

**CULTURE**—Kale may be planted in succession for table use or as green feed for poultry. Drill the seed in a well prepared seed-bed, thinning the plants to 12 inches apart in the row.

**DWARF CURLED**—The most desirable variety for table use, as the leaves are tender and of fine quality. Pkt. 5c; oz. 15c; 4 oz. 40c; lb. \$1.00.

**THOUSAND HEAD**—A rank growing variety producing an abundance of foliage, well suited for summer pasture or winter feed for poultry. Pkt. 5c; oz. 15c; 4 oz. 35c; lb. 75c.

## LEEK

$\frac{1}{2}$  oz. will plant 100 ft. row; 4 lbs. per acre.

**CULTURE**—The Leek plant is closely related to onions and should be planted in the same manner. Sow the seed early in the spring on a very fine compact seed-bed, drilling the seed in rows just far enough apart to cultivate easily. Thin the plants to 8 inches in the row.

**AMERICAN FLAG**—A strong growing variety, producing large thick stems which have a sweet flavor. Postpaid. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$1.75.

# Lettuce

$\frac{1}{4}$  oz will plant 100 ft. row; 2 to 3 lbs. per acre

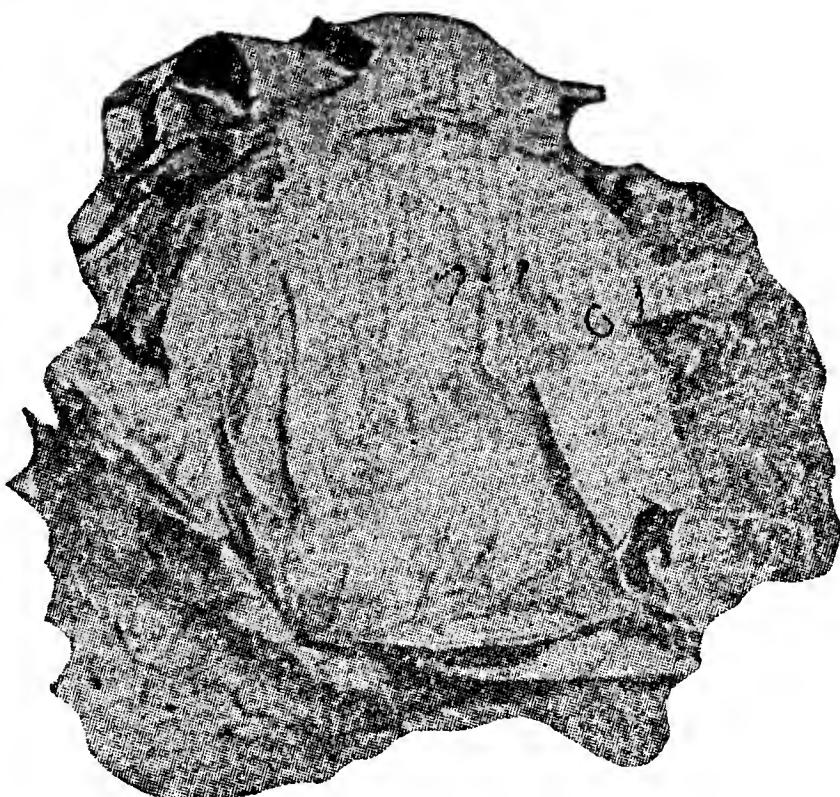
In producing head lettuce it should be planted very early in the spring, thinning the plants just as soon as possible so that they will head properly. If the plants are spaced about one foot apart in the row and weather conditions are satisfactory, they will head rapidly. It is advisable to fertilize head lettuce with Vigoro after they have been thinned, to hasten growth. In some localities early fall seeding can be made so that the crop can be harvested in October or early November.

**NEW YORK NO. 12**—Developed from a single plant selection and has been carefully propagated to prevent mixture with other strains. It is a great improvement over the ordinary New York, being earlier, producing large solid heads of the flat type. Oz. 25c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.

**GRAND RAPIDS**—Market gardeners growing lettuce under glass generally prefer this variety. The leaves are long, golden green in color, very crisp and tender. It can also be grown out-of-doors but is likely to burn if the weather is extremely hot. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 45c; 1 lb. \$1.25.

**EXTRA EARLY NEW YORK No. 5084**—An early, sure heading strain. Not excelled for use in this locality for early spring planting as it heads before warm weather. Color deep green, leaves curled. Oz. 25c;  $\frac{1}{4}$  lb. 60c; 1 lb. \$2.00.

**EARLY CURLLED SIMPSON**—This white seeded variety produces very curly light green leaves of fine quality. A favorite for early garden use. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.00.



Improved No. 12 New York Head

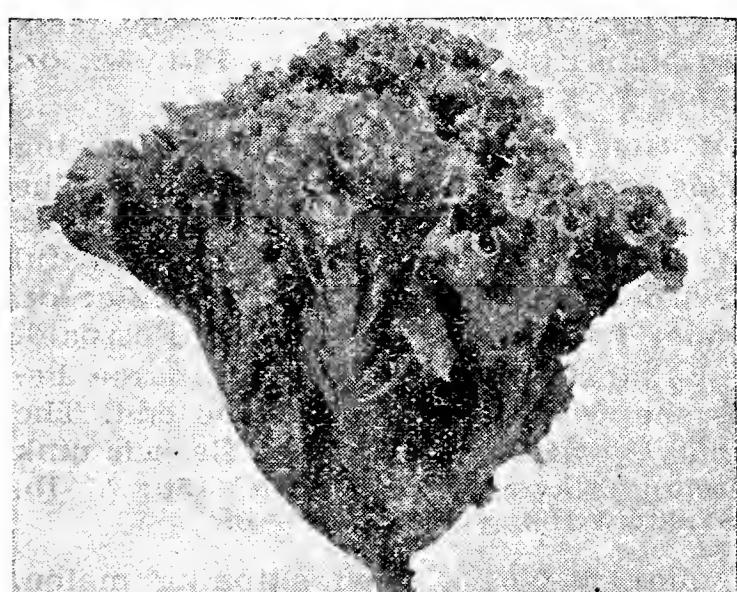
**SPECIAL NEW YORK**—We are certain that you cannot find a better stock of lettuce than our Special New York strain. All of our seed has been selected for uniformity of type, quality and yield and comes direct to us from our special grower in sealed bags. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**PRIZEHEAD**—This lettuce is a better leaf variety than it is for heading. The leaves are of medium green color tinged with brown toward the outer edge. The heads are very loose and open. It is a choice variety for early spring use. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.50.

**HANSON HEAD**—We recommend Hanson Head for the home garden as the heads are very select and of fine quality. It is lighter green in color than the New York head but does not stand shipment well. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**CHICKEN LETTUCE**—A large rank-growing lettuce developed especially for poultry feed. It can be sown in the garden and cut for poultry use or planted in the poultry yard allowing the poultry to harvest it when ready. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.

**PARIS COS**—A compact headed variety with large oval shaped leaves. This variety is used for salads and has a distinct flavor. Postpaid. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.



Grand Rapids

**CRISPETTE**—Has an unusually solid head. The white, main ribs of the leaves curve toward the center, and keep the interior thoroughly bleached. It is quick growing and always crisp and tender. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**BROWN DUTCH**—Forms a large, solid head; sweet, tender and of good flavor. Outer leaves are tinged with brown. It is very hardy. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50.

**VIGCRO WILL MAKE YOUR LETTUCE BETTER**



Crispette

# Muskmelons-Cantaloupes



One ounce will plant about 50 hills; two to three pounds in hill, per acre.

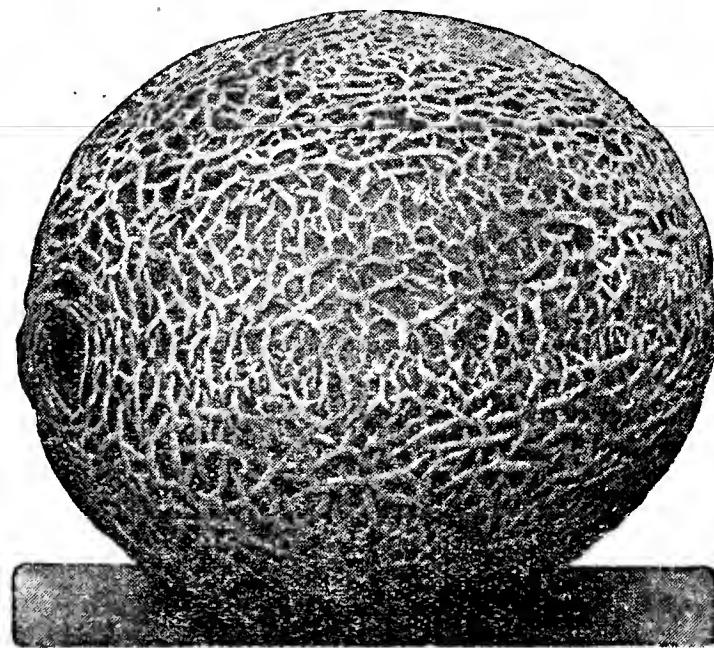
**CULTURE**—Melons thrive best in a light rich soil. Plant in May, when the ground has become warm and dry, hills 5 to 6 feet apart each way for muskmelons, 8 to 10 feet for watermelons. Previous

to sowing the seed, mix a shovelful of well rotted manure in each hill, and plant in each, 12 to 15 seeds. After all danger of bugs is over, thin out to three or four plants per hill. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground.

**HALE'S BEST**—The earliest maturing of all large melons. The fruits mature to luscious sweetness in 68 days after planting. The melons are oval but inclined to produce some fruits of somewhat more elongated shape. The popularity of Hale's Best is due to its earliness and to the sweet tasty flavor of its beautiful salmon flesh. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00; 5 lbs. \$4.50.

**HEARTS OF GOLD**—A delicious melon maturing in mid-season with fine shipping qualities. The fruits are oval with distinct ribs and netting over the surface. The flesh is very thick, of beautiful gold color with a small seed cavity. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**BANANA**—Banana melon receives its name because of its shape tapering toward the end. The skin is lemon yellowish color and the flesh is pink and of delicious flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00; 5 lbs. \$4.50. Postpaid.



Hale's Best

**ROCKYFORD OR NETTED GEM**—One of the old standard mid-season commercial melons. The fruits are oval-round in shape with distinct netting over the surface. The flesh is green in color and of delicate flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**BURREL'S GEM**—Our Burrel's Gem has been selected for trueness to type and uniformity in size. The melons are oval in shape with thick orange flesh. A fine main crop for commercial planting. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**EXTRA EARLY HACKENSACK**—A green fleshed melon of medium size, used generally in the home garden. The fruits are flattened and distinctively ribbed and of

good quality. Not a good shipping melon. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**SUGAR ROCK (or Honcy Rock)**—This is a new and unusually fine melon. Sweet as sugar and solid as a rock. It has four main points of superiority; quality, productivity, ability to stand shipping and appearance. Its flavor and quality are the finest we have ever seen, the flesh being a very deep salmon color right out to the very rind. Under good growing conditions it is a very heavy yielder, often producing five to seven perfect melons on one vine. Its rind is unusually hard, making it a good shipper. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.

## MUSKMELONS - CANTALOUPES—Continued

**SUPERFECTO**—This variety is recognized as the highest development in cantaloupe and is especially recommended for planting where melons are inclined to rust as it is more rust resistant than most sorts. The netting is well developed and closely laced covering the entire melon. The interstices between the netting are small and bright green changing to orange green when full ripe. The flesh a rich orange salmon, is very deep and the color shows through the rind where the melon touches the ground a day or two before the melon will slip enabling the careful picker to pick accurately.

The quality is unexcelled. The flesh is fine grained, very sweet and spicy. Market growers now plant thousands of acres to our Superfecto cantaloupes. Pkt. 5c; oz. 20c; 4 oz. 45c; 1 lb. \$1.50.

Other Melons, P.P.	Pkt.	oz.	4 oz.	lb.	5 lbs.
Pollock	10-25	.05	.15	.35	1.00 4.50
Honey Ball		.05	.20	.35	1.00 4.50
Osage or Millers Cream		.05	.15	.35	.95 4.25
Golden Beauty		.05	.20	.50	1.50 6.25
Honeydew		.05	.15	.35	1.00 4.50

## Duthie's Watermelons

1 oz. will plant 50 hills; 3 to 4 pounds per acre.

**KLECKLEY SWEETS**—One of the best commercial melons because of its shipping qualities and yield. The melons are oblong in shape with uniform dark green skin and dark red meat. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**KLONDIKE BLACK SEEDED**—This melon is used by many home gardeners and as a commercial melon. Rind dark green, thin. Flesh distinctive shade of red, brittle and sweet. Fruits oblong. A good shipper because it does not wilt, and for quality has no equal. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; 1 lb. \$1.25; 5 lbs. \$5.00. Postpaid.

**STONE MOUNTAIN**—We are offering this splendid new variety this year for the first time. It is a wonderful new melon, rather oblong in shape, light gray in color, with delicate white seeds. It has only about half as many seeds as other varieties. Its growth in popularity has been phenomenal. You should plant some of these. They are simply delicious. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; 1 lb. \$1.50; 5 lbs. \$6.00. Postpaid.

**KING AND QUEEN (Black Seeded Ice Cream)**—This melon is generally planted for late summer use and will keep well until late fall if stored in a cool dry place.



The melons are oval in shape with light yellowish green skin, brilliant red flesh and dark seeds. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**TOM WATSON**—A standard cylindrical melon of large size and fine shipping quality. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00; 5 lbs. \$4.50. Postpaid.

**COLE'S EARLY**—A small round melon which will ripen where the season is very short. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00; 5 lbs. \$4.50. Postpaid.

### OTHER GOOD WATERMELONS, Postpaid

	Pkt.	oz.	4 oz.	1 lb.	5 lbs.
Ice Cream or Peerless	.05	.15	.35	1.00	4.50
Goldne Honey	.05	.15	.35	1.00	4.50
Halbert Honey	.05	.15	.35	1.00	4.50

### PROTECT PLANTS WITH HOTCAPS

New Method of Plant Protection.

Eliminate most of the risk in growing vegetables

They protect your tender plants from frost, wind, rain, hail and insects. Plants grow faster and yield larger crops for early market.

**PRICES**—1000 lots, \$10.00; 5000 lots \$9.85 per 1000; 10,000 lots, \$9.75 per 1000; 250 Trial Package, including Garden Setter with Tamper, \$3.65; 100 Home Package, including Garden Setter with Tamper, \$2.40; Germaco Steel Tamper, 25c; Hotcap Setter, 50c; postage extra.

**Weight**—1,000 package HOTCAPS, 26 lbs.; 250 package, 9 lbs.; 100 package, 5 lbs.; Hotcap Setter, 8 lbs.



## Okra

2 ounces for 100 foot row.

Okra is a fine vegetable for use in soups and as a green vegetable. Should be planted after frost is over, thinning the plants early. The pods should be harvested before they become fibrous and woody.

**WHITE VELVET**—A taller variety maturing early. The pods are somewhat white in color and are

long, smooth and tender. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00. Postpaid.

**DWARF GREEN**—A very compact growing, heavily branched variety, producing a mass of pods. It is very early in maturity and the pods are of fine quality. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00. Postpaid.

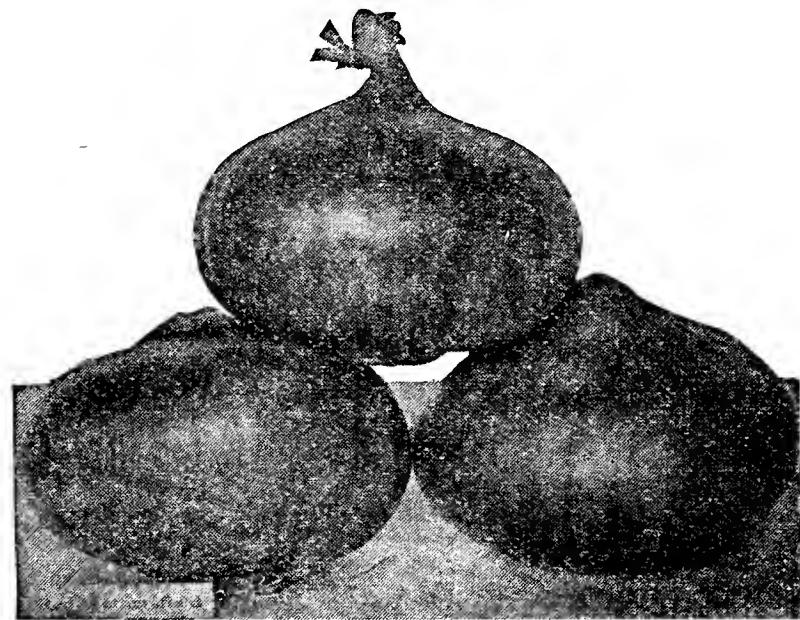
## Onions

One ounce of seed for 200 ft. of drill; 4 to 5 lbs. per acre.

Onions are highly prized for their tonic qualities, and doctors everywhere are advocating the use of them in the diet.

A good, well-drained soil, reasonably fertile and well pulverized, will give the best crops. Cover the

seed lightly and thin the seedlings when they are 3 inches tall, so that they will have room to develop freely. When the bulbs have reached maturity, bend down the tops to hasten ripening before the Onions are harvested.



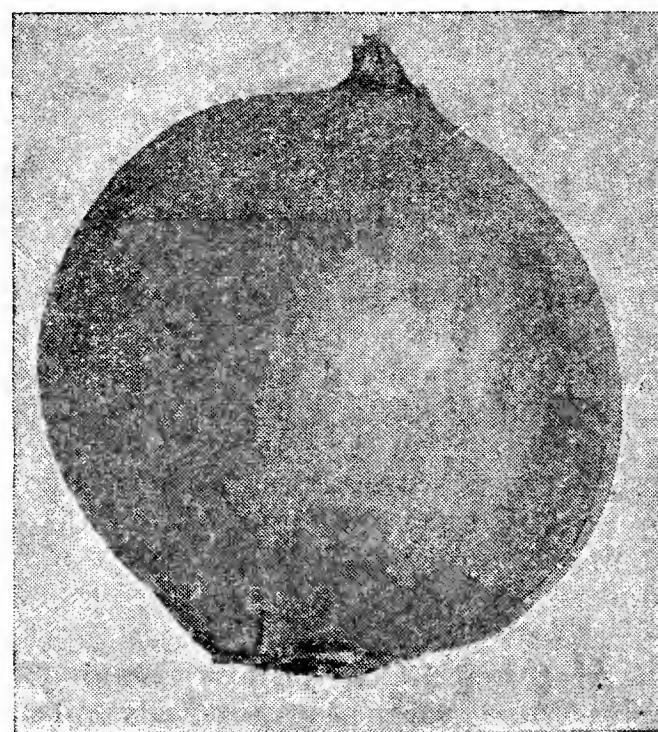
Yellow Globe Danvers

**YELLOW GLOBE DANVERS**—The old reliable Yellow Globe Onion. (110 days) One of the most extensively used main crop yellow onions for the home garden and market. The bulbs are of medium to large size, uniformly globe shaped, with small neck, and ripen very evenly. The skin is rich coppery yellow. The flesh is creamy white, crisp and of mild and excellent flavor. The variety keeps very well and is excellent for shipping. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75; 5 lbs. \$7.50.

**AUSTRALIAN BROWN**—Remarkable for its uniform size and keeping quality. (95 days). The handsome onions are extremely hardy, yielding an enormous crop. The skin is thick and of a beautiful rich brownish color. The flesh is white, extremely solid, sweet and mild in flavor. A desirable onion for the home garden as well as for market. Matures in 95 days. Pkt. 5c; oz. 20c; lb. \$1.75; 5 lbs. \$8.50.

**CRYSTAL WHITE WAX**—Is one of the Bermuda Onion class and is the most attractive onion of all. Crystal Wax is usually grown from plants and then matures for a Summer salad onion when it commands a good market price. Crystal Wax must be cured in the shade or they will sunburn and spoil very quickly. We have them in plants also. Ten-eriffe grown seed. Pkt. 10c; oz. 40c;  $\frac{1}{4}$  lb. \$1.00; lb. \$2.50. Postpaid. Not Postpaid. 5 lbs. \$12.00.

**WHITE PORTUGAL OR AMERICAN SILVERSKIN**—This is a medium sized onion of mild flavor and with beautiful, clear white skin. The variety is a favorite with many for use when young as a salad or bunching onion and for pickles. It usually matures about ten days earlier than White Globe and is fine for fall and early winter use. It is an excellent medium early sort for gardeners who do not care to plant more than one variety. The bulbs are nearly round when of bunching size, somewhat flattened when mature. This is the best flattened white onion for northern latitudes. Postpaid. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 65c; lb. \$2.00; 5 lbs. \$8.00.



Sweet Spanish

**SWEET SPANISH**—Special Riverside Strain—A very large globe-shaped light yellow onion with small top, and an exceptionally fine shipper. It is a Spanish variety which has quickly become very popular in many sections of this country. Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 90c;  $\frac{1}{2}$  lb. \$1.50; lb. \$2.50.

**LARGE RED WETHERSFIELD**—A standard variety; one of the most productive kinds, even in poor soil. Its good keeping qualities render it one of the best for shipping. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 65c; lb. \$2.00.

**SOUTHPORT WHITE GLOBE**—Large, silvery white, good keeper. A general favorite. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 80c; 1 lb. \$2.50.

**EARLY WHITE BARLETTA or WHITE QUEEN**—An exceedingly early variety growing about  $1\frac{1}{2}$  inches in diameter and  $\frac{3}{4}$  of an inch thick. A most excellent sort of bunching and pickling. 75 days. Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 90c; 1 lb. \$3.00.

## ONIONS—Continued

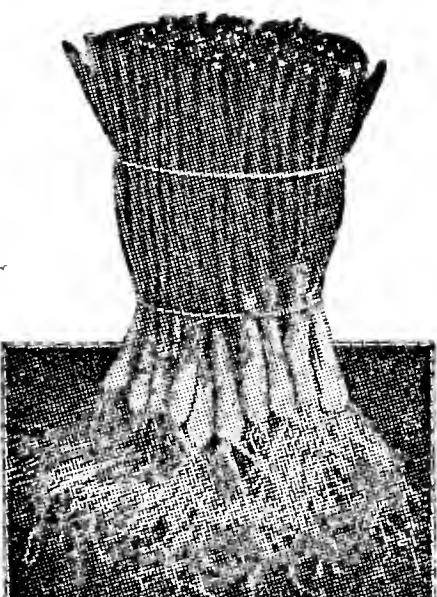
### Onion Sets and Plants

The first home garden harvest in the spring is young onions from sets. If perennial sets are planted in the fall, a crop is reaped long before the first outdoor seeds have sprouted. Spring sets can be put into the ground as soon as it is able to be worked and in a few weeks the delicious young onions are ready to serve on the table. Plantings may be successively late into the summer, as long as the sets remain in good condition.

**WHITE BOTTOMS**—1 lb. 25c; 5 lbs. \$1.00. Postpaid.

**YELLOW BOTTOMS**—1 lb. 20c; 5 lbs. 85c. Postpaid.

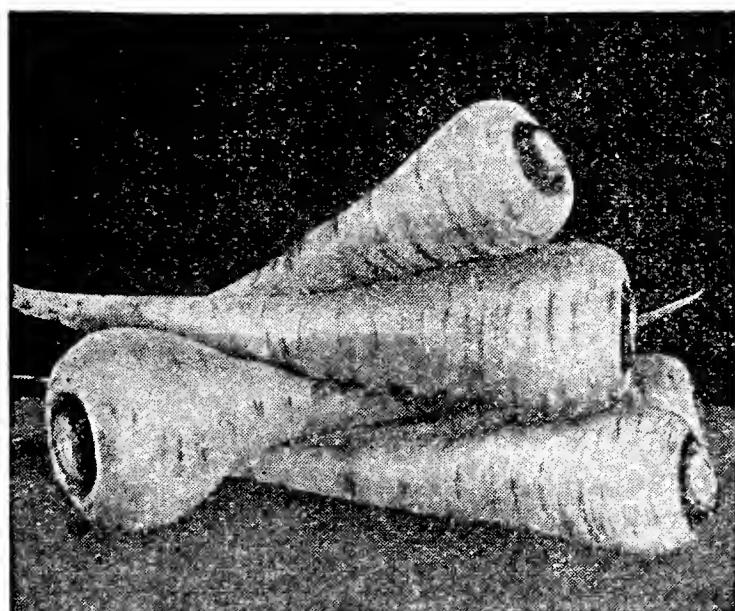
**SHALLOT'S OR YELLOW MULTIPLIERS**—Flavor much superior to ordinary onions. 1 lb. 30c. Postpaid.



Young Bermuda Plants

### Bermuda Onion Plants

These are new, and especially suitable for home gardens. Seed is sown early in Texas, and the plants are lifted, to be replanted in Northern garden, to produce sweet, mature onions of Bermuda quality. Ready April 1st. Per 100, 30c, postpaid. Per 1000, \$2.00, postage extra; wt. about 6 lbs.



### Parsnips

One ounce for 200 feet of row.

These are of easiest culture and require a full season to come to maturity. The seed of the long varieties should be sown early in the spring up to May 15. The roots may be left outdoors all winter long.

**HOLLOW CROWN OR LONG SMOOTH**—(85 days). Roots oblong, ending somewhat abruptly with a tap root; best variety for general use. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 90c.

**EARLY HALF LONG**—Ready in ninety days. Medium sized, easily dug, has a fine rich flavor—good for home gardens. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 90c.

### Acme All Round Spray

Flowers, vines, shrubs, roses, vegetables, need protection same as commercial crops. All Round Spray contains the three leading remedies used by all large growers. Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture. Perfect protection for the small used is assured by complete directions in form of spraying guide attached to every package. Price  $\frac{1}{4}$  lb. 40c; 1 lb. 90c.

### Garlic

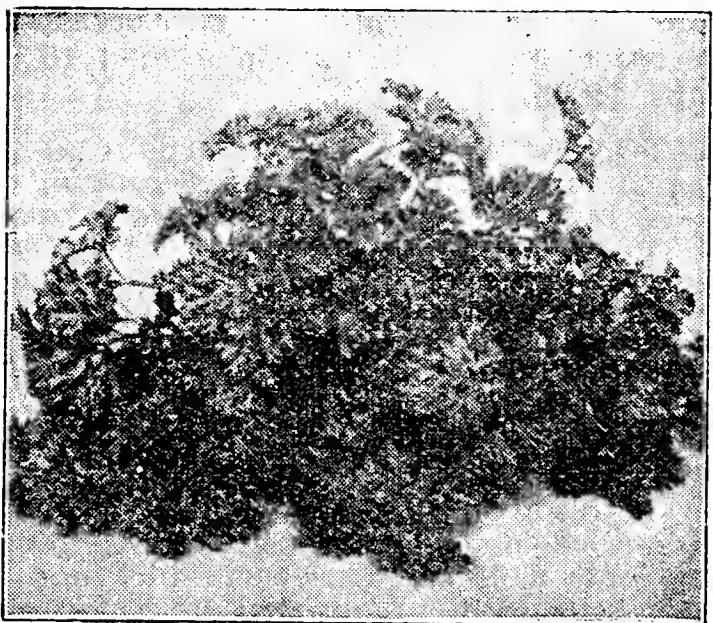
**LARGE FRENCH**—This giant variety will yield nearly double the common kind. Plant the sets very early in the spring.  $\frac{1}{2}$  lb. 25c; 1 lb. 35c. Postpaid.

### Parsley

One ounce to 150 feet of drill.

Sow in drills one foot apart, in rich, mellow soil; soak the seed 12 hours before sowing, which should be done in early spring, as they are very slow to germinate. When one or two inches high thin out the plants to six inches apart in the rows. Used as a garnish for table, also in soups.

**CHAMPION MOSS CURLED**—A compact growing, finely cut and much curled variety of a bright green color. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 35c; 1 lb. \$1.00.



### Feed Everything You Grow

with this complete,  
balanced diet

**VIGORO**  
Complete plant food



Treat Your Seed with Semesan to Increase Germination and Vitality.

## Garden Peas

One pound will plant about fifty feet of row.

**CULTURE**—Peas of the extra early smooth class are the very first thing to be planted in the garden in spring. The wrinkled sorts follow a little later, as they are not quite so hardy. Tall, late varieties need brush or other support. By selecting sorts that do not grow much over two feet high, the necessity of providing brush may be avoided. Judicious selection of varieties and planting frequently for succession will give a full supply of the choicest green peas almost during the entire season, with the possible exception of the hottest part of the summer. Open furrows three or four inches deep and three feet apart; scatter the seed peas into them and cover with hoe. Cultivate like corn or beans. The late tall sorts may be planted in double rows placing brush between them for support.

**BONNERS BEST**—This new pea was originated in the northern part of Idaho. Very heavy yielder; heavy dark green foliage, sweet and produces over a long period. Height 16 inches. We consider this our best early wrinkled variety. Carton 20c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c.

**BLUE BANTAM**—The best first-early Dwarf Wrinkled Pea. Blue Bantam is unequalled in many ways. It is positively the sweetest and most delicious Pea in existence. In extreme earliness combined with unusual productiveness it takes its place way above all other varieties. The dwarf, vigorous vines average 15 inches in height. They carry an enormous crop of large, deep-green pods. The individual pods measure  $3\frac{1}{2}$  to 4 inches in length and are tightly packed with 8 to 10 large, deep bluish green Peas. The Peas are outstandingly sweet and most delectable. Wrinkled seed. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**NEW GIANT WONDER PEAS**—The New Giant Wonder Pea is a sport from the old favorite American Wonder Pea. It is larger, more prolific and will stay in eating condition longer than the old type. Carton 20c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c.

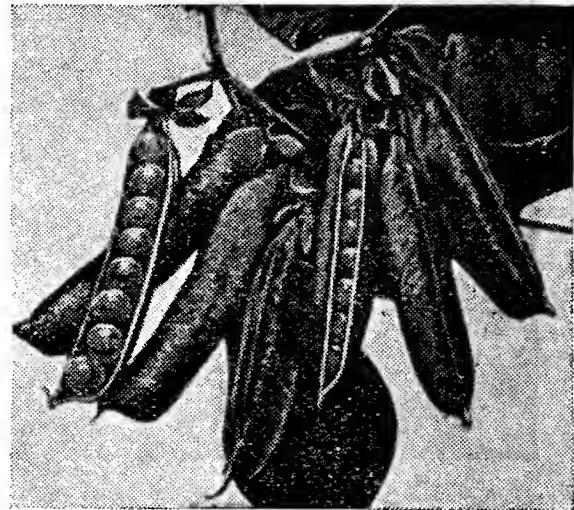
**DUKE'S DELIGHT (Little Marvel)**—We offer this pea for your approval, as it is one of the finest early varieties we have grown. The plants are from 15 to 18 inches tall, the crop developing with American Wonder, but requiring a longer period to reach full maturity. The pods are straight, large and blunt, varying from 3 to  $3\frac{1}{2}$  inches in length, from 7 to 9 seeds per pod. A fine variety for market and home use. We have grown Duke's Delight together with Little Marvel and find the two stocks identical in characteristics. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**LAXTONIAN**—Our stock produces very large pods curved at the end, averaging  $3\frac{1}{2}$  to  $4\frac{1}{2}$  inches in length. The plants are 15 to 17 inches tall, producing 4 or 5 pods each. One of the finest market garden varieties because of earliness and size of pods. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**AMERICAN WONDER**—The standard dwarf early variety for the home garden. The plants are bushy, producing a large number of pods, which are straight and blunt and well filled. Several pickings can be made in the home garden and the quality is excellent. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**PREMIUM GEM**—When sown at the same time as American Wonder the crop blooms about five days later but is not ready for use until about ten days after the American Wonder is ready for picking. Plants are from 25 to 30 inches tall, producing a medium sized pod with fine quality peas. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**GRADUS**—A second early variety growing to a height of 30 inches. The pods are large like the Laxtonian and the seeds very sweet and tender. A favorite for market purposes



**Giant Wonder**

as well as the home garden. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**ALASKA or Earliest of All**—A very hardy variety for early planting. The seeds are small and of finest quality for canning and the entire crop is ready for harvest at the same time. Plants 2 feet in height. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

**EVERBEARING**—For late summer and autumn; very prolific variety. Pod about 3 inches long, with large peas of good quality. Carton 10c; 1 lb. 30c.

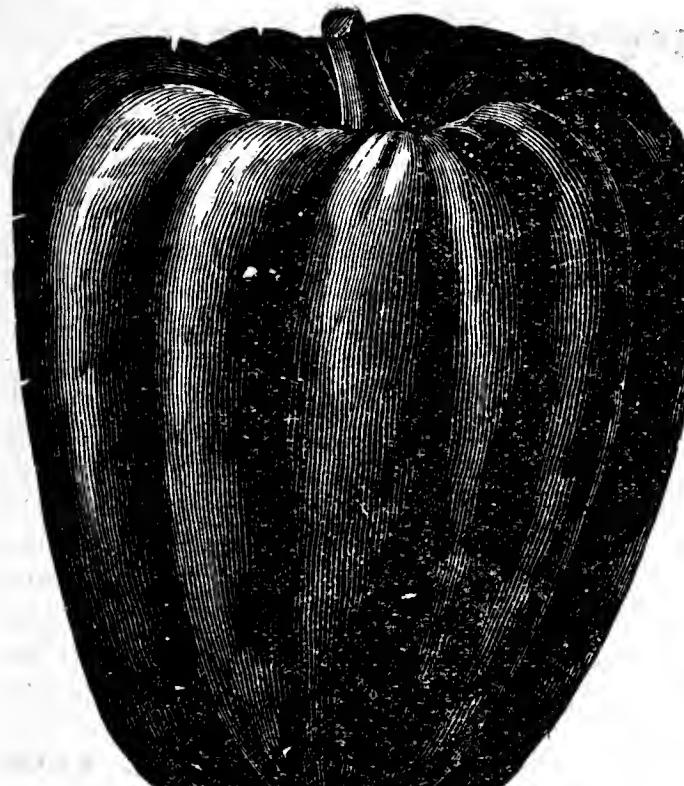
**TALL TELEPHONE**—A tall variety maturing with the Dwarf, with very large pods. It should be trained on stakes for best results. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.

### DWARF TELEPHONE

—One of the best late varieties because of its dwarf habits of growth and large pods. Postpaid. Carton 10c; 1 lb. 30c; 5 lbs. \$1.25; 10 lbs. \$2.25.



**GARDEN SIZE FOR PEAS 25c**



Ruby King Pepper

## Peppers

One ounce will produce about 1,500 plants

**CULTURE**—Pepper plants should be started in the hotbed or cold frame in early May, so as to be ready for transplanting by the time killing frost is over. Set out in clean soil, well fertilized, spacing the plants about 2 ft. apart in the row.

**CALIFORNIA WONDER**—Produces strong healthy plants bearing a very heavy yield of meaty fruit, sweet, tender and mild, short and chunky. By far the finest pepper now offered. Pkt. 5c; oz. 65c; 4 oz. \$2.00; lb. \$6.50.

**PIMENTO**—A thick fleshed, heart shaped pepper of mild flavor. The fruits are long and slender and are much used for salads. This variety is rather late in maturity. Postpaid. Pkt. 5c; oz. 50c;  $\frac{1}{4}$  lb. \$1.50; lb. \$5.00.

**CHINESE GIANT**—One of the largest varieties of peppers. The fruits are thick, bulky, and of large dimension and medium early in maturity. Postpaid. Pkt. 5c; oz. 55c;  $\frac{1}{4}$  lb. \$1.65; 1 lb. \$5.50.

**RUBY KING**—A very satisfactory variety for home and market gardeners. The plants are early, dwarfed in habits of growth, the fruits large with thick flesh, very sweet and mild and of bright red color. Pkt. 5c; oz. 45c;  $\frac{1}{4}$  lb. \$1.40; lb. \$4.90.

**LONG RED CAYENNE**—A hot, spicy pepper producing long, slender fruits which are twisted at the end. Medium late in maturity. Pkt. 5c; oz. 60c;  $\frac{1}{4}$  lb. \$2.00; lb. \$7.00.

## Peanuts

Peanuts are an American institution, their delectable aroma and consumption an inevitable feature at all American outdoor sports. It may be a matter of surprise to most northern gardeners that it is not only practical but profitable to raise your own, as well as help supply your local market.

**CULTURE**—Peanuts require light rich soil well limed. Plant in the spring as soon as

the ground has become warm, in rows 30 to 36 inches apart, placing the seed 6 to 10 inches apart in the row. It is not necessary to remove the hull when planting. Keep well hoed. When matured pull and hang up to dry.

**SPANISH BUSH TYPE**—Very desirable and productive. Mild, sweet flavored. Pkt. 10c;  $\frac{1}{2}$  lb. 25c; 1 lb. 40c; 2 lbs. 75c. Postpaid.

## Pumpkins

One ounce will plant 100 hills; three pounds per acre.



Sugar or Pie Pumpkin

**CULTURE**—Pumpkins should not be planted until danger of frost is over. They may be planted alone in hills or hills scattered through corn fields where the stand of corn is somewhat uneven. A few seeds sown in each hill will produce sufficient vines for a heavy yield. If planted alone, the hills should be spaced 4 to 6 ft each direction.

**SUGAR OR PIE**—An early maturing variety with medium sized fruits slightly flattened at the ends and of golden color. The flesh is thick and of excellent quality for canning. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 35c; lb. \$1.00; 5 lbs. \$4.50.

**CONNECTICUT FIELD**—This pumpkin is used principally for stock feed because of its large size. The fruit is longer and larger than the Sugar Pumpkin and the flesh is of somewhat coarser texture. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c; 1 lb. 80c; 5 lbs. \$3.50.

**WINTER LUXURY**—The best flowered pie pumpkin grown. Excellent keeper. Medium size. Color golden russet, finely netted. Flesh deep golden, sweet, tender and very thick. Pkt. 5c; oz. 15c; 4 oz. 35c; 1 lb. \$1.00.

Cultivate Your Garden the Easy Way. See Tool Department for the New Easy Garden Cultivator. They are Guaranteed to Give Satisfaction

# Mountain Grown Seed Potatoes

Potatoes like rich soil but no fresh manure. Work a potato fertilizer into the rows with the hoe. Set the cut tubers in drill about six inches deep, with a piece every 15 inches. It is a good plan to fill in the drill with three inches of soil, then to apply fertilizer and fill in the rest of the soil. Tubers should be cut into pieces with two eyes and each piece should be as large as possible. Early potatoes are often planted in April, later crops from the last of May into June. Extra early potatoes can be obtained by sprouting the seed. First the tubers are cut in the usual way, after which they are spread out in a shallow box with the eyes up and kept in a dry place until ready for planting.

**Our TUBER INDEXED SEED POTATOES** have again proven to be the very finest foundation stock.

Only high yielding hills and selected tubers are used in production of this Supreme Quality seed stock.

Get a start of these fine seed potatoes. We can furnish **TUBER INDEXED** seed state certified, packed ten pounds per bag and tagged with official purple tag, indicating the very highest quality in the following varieties; Early Ohio, Irish Cobbler, Idaho Rural and Netted Gem. Postpaid 3rd zone. **10 lbs. \$1.50.**

Ton or Carlot prices quoted on request

**EARLY WHITE WONDER** — See front cover page. We are again offering a limited quantity of the **Early White Wonder Potato**. This is truly a wonderful new potato, very early and at the same time a heavy yielder.

No more cull Potatoes when you grow **Early White Wonder**. They yield as much as three hundred bushels per acre without irrigation. They are an ideal dry land Potato. Postpaid, **10 lbs. Selected Early White Wonder Seed Potatoes, \$1.50.**

**"SELECTED STOCK"** Seed Potatoes—Our "selected stock" seed potatoes are field rouged and for commercial planting are practically as good as State Certified seed, but on account of less expense in handling can be sold at a lower price.

Prices Prepaid to 4th zone	10 lbs.
Early Ohio .....	\$1.00
Irish Cobbler .....	1.00
Bliss Triumph .....	.90
Early Rose .....	1.00
Idaho Rural .....	.90
Netted Gem .....	.90
Early Sunrise .....	1.00
Early White Wonder .....	1.50
Earliest of All .....	1.00

Write for special quotations on larger quantity

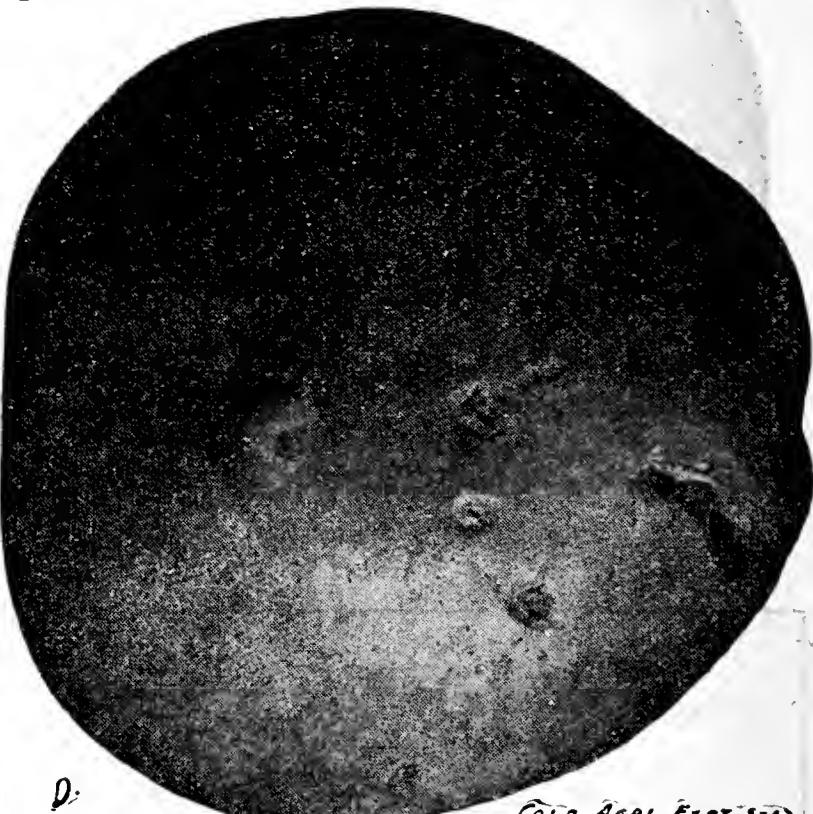
**EARLIEST OF ALL**—Can be had ready for baking 9 weeks from planting, fully matured in 12 weeks.

Originally a selection from Early Eureka showing a marked difference in habit and greatly increased yield which years of careful re-selection have firmly fixed and improved. "Earliest of All" is a shallow eyed, white skinned variety of vigorous growth, not subject to blight or disease and does not make a second growth. The tubers are smoother and have fewer eyes than other varieties of this type. The white blossoms also easily distinguish it from Irish Cobbler, which has a purple bloom. Not affected by summer droughts owing to its quick growth and early maturity. Keeps as well as any late potato. **Price, postpaid, 10 lbs. \$1.00.** Write for quantity prices.

**EARLY OHIO**—One of the best early pink potatoes, similar to Early Rose. Tubers round, oblong shape. Eyes rather shallow but strong. A heavy yielding, dependable variety. An old favorite that is still popular in many sections. **Prices, prepaid: 10 lbs. \$1.00.** Write for quantity prices.

**EARLY ROSE**—Strong, vigorous vines of medium height. Flowers white, rather abundant. Tubers quite smooth, elongated or oblong, stem and seed end rather blunt, Eyes shallow, but sharp and strongly marked; skin thin but tough. Flesh creamy white, sometimes streaked with red, solid and brittle, rarely hollow. Our strain of this grand "old-timer" is exceptionally good. **10 lbs. postpaid, \$1.00.** Write for quantity prices.

**IRISH COBBLER**—Splendid creamy white potato for early market. Large, round, sometimes slightly netted. Produces very smooth potatoes and will bake dry and mealy, even before ripe. Extra early. **10 lbs. postpaid, \$1.00.** Write for quantity prices.



Irish Cobbler

COLO. AGRI. EXP. STA.

## POTATOES—Continued

**BLISS TRIUMPH**—Recognized as one of the very earliest varieties. Is also a good keeper. Very productive. Tubers round, pink skin, flesh very white and of excellent flavor. 10 lbs., \$1.00, postpaid. Write for quantity prices.

**NETTED GEM**—Russett, Burbank, Yakima Gem, Idaho Russett, etc. A splendid main crop late potato that gives good results in dry sections. Tubers are elongated, medium sized with russett netted skin; flesh white; eyes are flush with surface; good keeper and produces a fine yield. This is the variety grown extensively by irrigation in Washington and Idaho for baking. Our stock is extra choice of the most improved type. Prices, prepaid; 10 lbs. 90c. Write for quantity prices.

### SPECIAL HOME GARDEN COLLECTION

We offer as a special home garden collection of selected stock:

10 lbs. Early Ohio .....	\$1.00
10 lbs. Irish Cobbler .....	1.00
10 lbs. Idaho Rural .....	.90
10 lbs. Netted Gem .....	.90
10 lbs. Early White Wonder .....	1.50
10 lbs. Early Rose .....	1.00
	\$5.30

All for \$3.40 Prepaid 4th zone

**Treat Your Seed Potatoes with Improved Semesan Bel for Best Results**

## Radishes

One ounce will plant 100 feet of row; ten lbs. per acre.

**CULTURE**—Sow early and often. In good, warm loam, especially if quite sandy, summer radishes will make a crop in four to six weeks from sowing. The soil should be well prepared and fertilizers

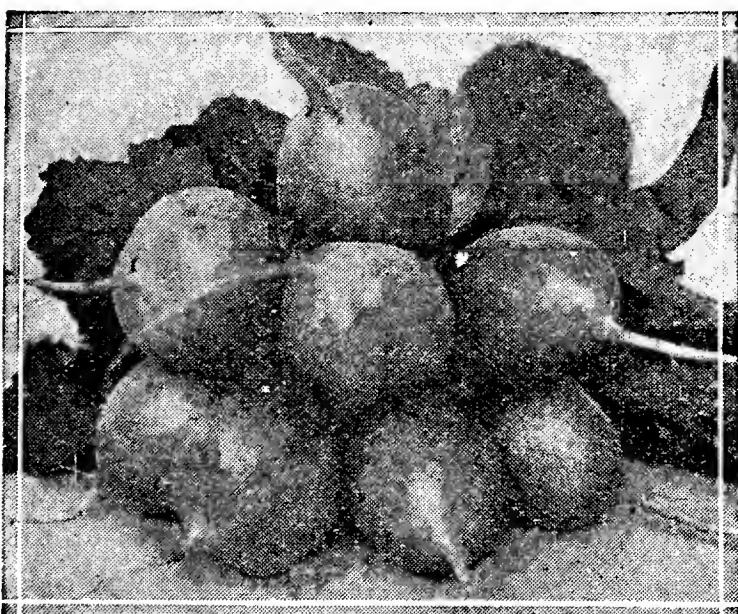
may be used freely. Have the rows a foot apart, and sow just enough so that they will not require thinning. The short turnip-rooted sorts are quickest and easiest to grow and also good for forcing.

**EARLY SCARLET WHITE TIP**—One of the favorite varieties for the home gardener because of its crisp quality and early maturity. A turnip shaped radish with scarlet top and white tip. Postpaid. Pkt. 5c; oz. 15c; 1/2 lb. 55c; 1 lb. 90c.

**WHITE ICICLE**—A standard variety for market and home use because of its attractive appearance and uniform shape. Retains its quality if planted early in the season. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1/2 lb. 55c; 1 lb. 90c.

**LONG SCARLET**—A scarlet variety similar in shape to the Icicle but growing a more slender root. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1/2 lb. 55c; 1 lb. 90c.

**SCARLET GLOBE**—One of the earliest varieties, having a globe-shaped root, very crisp and tender. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1/2 lb. 55c; 1 lb. 90c.



Early Scarlet Globe

**SAXA**—The earliest forcing sort, slow to run to seed, round, bright scarlet, very small top. Flesh snowy white, crisp and good. Pkt. 5c; 1/4 lb. 30c; 1 lb. 90c.

**CRIMSON GIANT**—A most remarkable new Radish for both the home garden and market sale. The roots, even though they grow to the enormous size of 1 1/2 inches in diameter, are as crisp as ice if grown quickly. The skin is bright scarlet-red and the flesh is pure white. The ample and large foliage is a bright healthy green. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1/2 lb. 55c; 1 lb. 90c.

**EARLY SCARLET OLIVE**—This early radish has an olive shape, a bright scarlet color and white flesh. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1/2 lb. 55c; 1 lb. 90c.

**FRENCH BREAKFAST**—One of the old standard varieties, rather oblong in shape and suitable for early use. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 30c; 1/2 lb. 55c; 1 lb. 90c.

### WINTER RADISHES

These require cool weather at the finish of their growing season, though they may be started during hot weather. Make your first planting the middle of June, a second the middle of July and a third the middle of August. Sow thinly in rows not less than 15 inches apart; thin out to stand 6 inches apart. Easily stored for winter use. One ounce for 100 feet of row.

**WHITE CHINESE or Celestial**—An outstanding variety, growing to enormous size. The white roots are cylindrical and grow 12 to 15 inches long, with a diameter of 5 inches. The flesh is crisp, juicy, and tender. Agreeably mild in flavor. A widely grown variety. Very productive. Postpaid. Pkt. 5c; oz. 20c; 4 oz. 40c; 1/2 lb. 60c; 1 lb. 95c; 2 lbs. \$1.65; 5 lbs. \$3.80; 10 lbs. \$6.65.

## RHUBARB

One ounce will produce about 700 plants

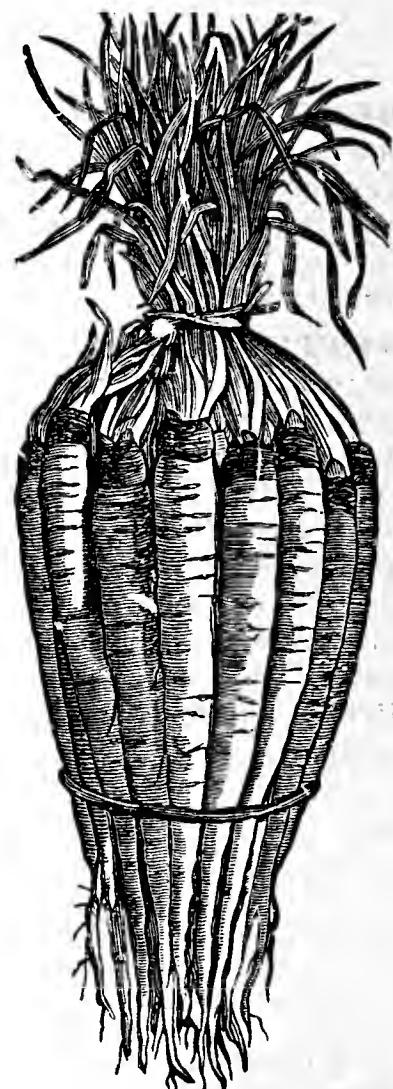
**CULTURE**—Plant the seed in rows at least one foot apart and thin the plants to about 5 inches in the row. As the stronger plants develop, thin out the weak ones and cultivate throughout the season. In the spring of the second year, transplant to a well manured plot, spacing the plants about 4 feet each way. Give plenty of cultivation, water and fertilizer for a rapidly grown crop.

**VICTORIA**—A large stalk variety which grows rapidly and is very succulent and free from fibre. Postpaid. Pkt. 5c; oz. 20c; 4 oz. 60c; lb. \$1.90.

## SALSIFY—Oyster Plant

This plant is grown largely for fall and winter use and is highly esteemed for the fine flavor of the roots. The popular name, Oyster Plant, has been given to Salsify because the roots have an oyster-like flavor.

**SANDWICH ISLAND MAMMOTH**—The roots, notwithstanding their extra-large size, are of excellent quality and delicate in flavor. It is a great improvement on the ordinary type, producing shorter and better shaped roots with almost white flesh and of fine flavor. Easily stored for winter. Postpaid. Pkt. 5c; oz. 25c; 1/4 lb. 75c; 1/2 lb. \$1.30; lb. \$2.10.



Salsify

## Spinach

One ounce will plant 100 ft. of row; 8 to 10 lbs. per acre

**CULTURE**—For spring and summer use, sow in drills one foot apart and one inch deep, as early as the ground can be worked, and every two weeks for a succession. For winter and early spring use, sow in September in well manured ground; cover with straw on the approach of severe cold weather. The ground cannot be too rich. The stronger the ground the more delicate and succulent will be the leaves. Light applications of sulphate of ammonia have often a magic effect on spinach.

**GIANT NOBEL THICK LEAF**—A much improved sort. The plants and leaves are both much larger and the leaves are outstanding for their thickness, being almost as thick as cabbage leaves. Very tender. Pkt. 5c; oz. 15c; 1/4 lb. 35c; 1 lb. 50c; 5 lbs. \$2.00.



Improved Thick Leaved Spinach

**LONG STANDING**—This variety does not go to seed as rapidly as other spinach. While the leaves are smaller than those of the Bloomsdale, it is desirable for late spring planting. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 35c; 1 lb. 50c; 5 lbs. \$2.00.

**IMPROVED THICK LEAVED**—A variety preferred by market gardeners for fall seeding and is equally satisfactory for spring planting. Leaves are bright green in color, somewhat round and of choice quality. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c; 1 lb. 45c; 5 lbs. \$1.70.

**VIROFLAY**—A variety suitable for spring or fall planting. The leaves are very large and arrow shaped. Desirable for canning because of its clean upright leaves. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 35c; 1 lb. 50c; 5 lbs. \$2.00.

**KING OF DENMARK**—This spinach is a rank grower with deep wrinkled dark green leaves. It

appears quite resistant to extreme hot weather conditions. Postpaid. Pkt. 5c; oz. 15c; 1/2 lb. 35c; 1 lb. 60c; 2 lbs. \$1.00; 5 lbs. \$2.25.

## Squash

One-half ounce will plant 100 feet of row; 2 to 3 lbs. per acre.

**CULTURE**—Plant in well-manured hills, the bush varieties four feet apart each way, the winter sorts ten to twelve feet each way. Use seed freely, 8 to 12 seeds to the hill, to provide for losses by insects. When danger of such loss is past, thin to two or four plants to the hill. To repel the squash vine borer, throw a handful of tobacco dust close around the plants. For yellow-striped beetle and blight, spray early and repeatedly with Bordo Arsenate.

### SUMMER VARIETIES

**WHITE BUSH SCALLOP**—More summer squash should be grown as they supply the green vegetables during the season when much of the garden has passed its prime. The fruit of this squash is scallop-shaped, white in color and of high flavor. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 40c; 1 lb. \$1.20.

**YELLOW BUSH SCALLOP**—These squashes are of golden yellow color and of similar shape to the white Bush. They have a distinct flavor and are excellent for table use during the early summer. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 40c; 1 lb. \$1.20.

**YELLOW SUMMER CROOKNECK**—The fruits of this variety are elongated and somewhat warty and crooked toward the point of attachment. They should be used before they attain maximum growth. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 40c; 1 lb. \$1.20.

### FALL and WINTER VARIETIES

**DELICIOUS**—A medium sized variety with dark green skin. The fruits are top shaped. A good keeper. Postpaid. Pkt. 5c; oz. 15c; 1/4 lb. 40c; 1 lb. \$1.20.

## SQUASH—Continued

**GOLDEN HUBBARD**—An old variety similar in shape and quality to the Green Hubbard. The skin is golden yellow in color. Postpaid. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.20.

**MAMMOTH CHILI**—Grows to an enormous size, often weighing over 200 pounds. Flesh thick, and fine quality. Its size makes it valuable for stock feeding. Postpaid. Pkt. 5c; oz. 15c; 2 oz. 25c; lb. \$1.25.

**TABLE QUEEN**—We recommend this variety for the home gardener who desires a small squash for winter use. It is especially desirable for use by small families as the squash can be utilized more efficiently than the larger varieties. The fruits are acorn shaped, dark green in color and distinctly ribbed, yellow flesh. They keep just as well as the Hubbard Squash and have a better flavor. Postpaid. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 45c; 1 lb. \$1.30.

**BANANA**—The skin of this squash is grayish green in color and the fruits long and tapering toward the ends. The rind is not so hard as in the Hubbard. A good keeper. Postpaid. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.20.

**MARBLEHEAD**—Matures at the same time as the Green Hubbard. Skin is light green in color. This

variety is grown commercially in many irrigated sections. Postpaid. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.20.

**GREEN HUBBARD**—An old favorite winter variety. These squashes are slightly warted, dark green in color with a thick heavy rind. Postpaid. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; 1 lb. \$1.25.



Green Hubbard

## Tomatoes

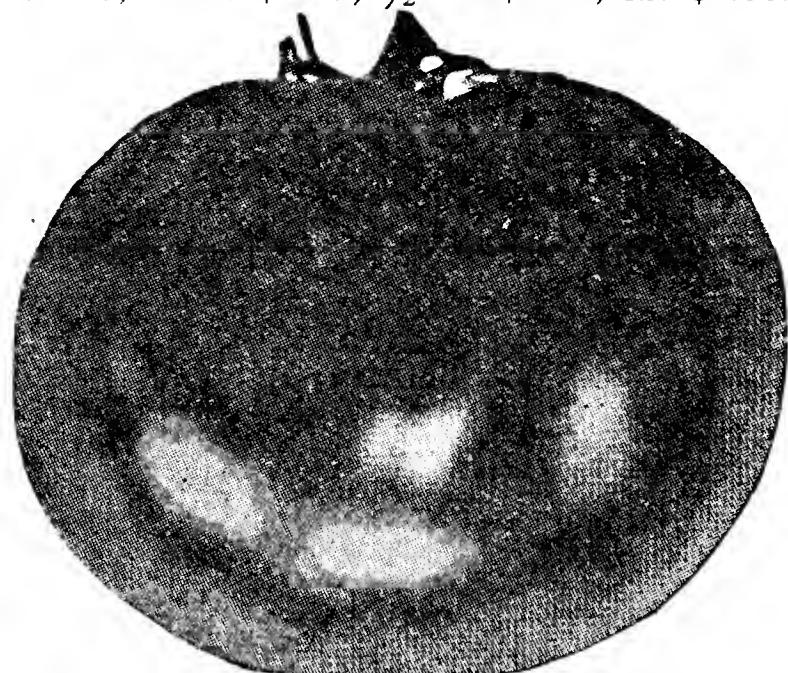
One ounce will produce 2,000 plants

**CULTURE**—Tomatoes may be started in hotbed or under glass to be ready for transplanting as soon as frost danger is over. Set out on land thoroughly prepared and free of weeds, spacing the plants 3 to 4 feet apart in the row. Often the seed may be planted in hills and a single plant allowed to grow, planting in the permanent bed where the crop is to be grown.

special, vines are rather dwarf and produce very heavy crop of intense scarlet fruits of nearly globe shape. Pkt. 10c; oz. 60c;  $\frac{1}{4}$  lb. \$2.00.

**MARGLOBE**—The most important Tomato introduced in years—the achievement of Dr. Fred Pritchard, United States Department of Agriculture. It is practically immune to Nail Head Rust and Fusarium Wilt. It is a hybrid from Marvel and Globe, of pure scarlet globe-shaped type, having the fine characteristics of the Globe but more vigorous; a heavy producer and somewhat earlier—an exceptionally fine Tomato, especially recommended for shipping. Postpaid. Pkt. 5c; oz. 40c; 4 oz. \$1.50;  $\frac{1}{2}$  lb. \$2.75; 1 lb. \$4.90.

**SPARK'S EARLIANA**—We offer a special stock of this variety which has been selected for freedom from disease, type, and shipping quality. The fruits are large, smooth, of fine texture and quality. Postpaid. Pkt. 5c; oz. 35c; 4 oz. \$1.00;  $\frac{1}{2}$  lb. \$1.85; 1 lb. \$3.50.



Earliana Tomato

**BREAK O'DAY**—This new Tomato was originated by the Dept. of Agriculture and we are pleased to state that it has proven to be all that has been claimed for it. In our trial plot last season it matured two weeks earlier than the Earliana. From all indications it will be the most popular early Tomato in this market. Beautiful scarlet fruit of medium size, deep solid, and almost seedless. Vigorous growth with sparing foliage. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.75; 1 lb. \$6.00.

**OXHEART**—The largest tomato. The shape is "oxheart," the fruit very heavy and solid with almost no seed cells. As a slicing tomato, it has no equal. Pkt. 15c; oz. 75c;  $\frac{1}{4}$  lb. \$2.50; 1 lb. \$8.00.

**PRITCHARD OR SCARLET TOPPER**—Latest wilt resistant tomato raised by late Dr. Pritchard who was so well known to the trade for his valuable introduction of Marglobe and Break O'Day. It belongs mid-season sort and being a cross of Cooper's

## TOMATOES—Continued

**JOHN BAER**—Our stock of John Baer has been used by many gardeners and has given excellent results. It is an early variety with very solid flesh and a bright red color. Postpaid. Pkt. 5c; oz. 35c; 4 oz. \$1.00;  $\frac{1}{2}$  lb. \$1.85; 1 lb. \$3.50.

**BONNY BEST**—For the home garden we recommend this variety because it is early and the fruits are medium in size, very firm, with a small seed cavity. Postpaid. Pkt. 5c; oz. 35c; 4 oz. \$1.00;  $\frac{1}{2}$  lb. \$1.85; 1 lb. \$3.50.

**CHALK'S EARLY JEWEL** — A variety which produces throughout the season if conditions are favorable. The fruits are

large, bright scarlet in color and stand shipment well. Postpaid. Pkt. 5c; oz. 30c; 4 oz. \$1.00;  $\frac{1}{2}$  lb. \$1.75; 1 lb. \$3.25.

**YELLOW PEAR** — For preserving and pickling this tomato is excellent. The fruits grow in clusters and are small in size, of bright yellow color and pear shape. Postpaid. Pkt. 5c; oz. 50c; 4 oz. \$1.75.

**GROUND CHERRY**—A species of tomato producing the fruit inside of a husk. The fruits are small, round and yellowish in color and are used for preserving. Postpaid. Pkt. 5c; oz. 50c; 4 oz. \$1.90.

SEE PAGE 29 FOR TOMATO PLANTS

## Turnips

One ounce will sow 400 feet of drill. In drills, 1 to 2 lbs. per acre, sown broadcast, 4 to 5 lbs. per acre. Turnips develop best during cool weather, and can be grown from seed sown early in the spring. But Turnips are most important as a fall crop. For fall or winter use sow the seed between the middle of July and August 20 in rows not less

than 18 inches apart and cover with  $\frac{1}{2}$  to  $\frac{3}{4}$  inch of fine soil. The most popular method, however, is to broadcast the seed either between the rows of corn or in the cultivated orchard. The early white varieties are often sown after early Potatoes.

**PURPLE TOP STRAP-LEAF**—This is surpassed in earliness only by the Milan. The roots are quite flat, 4 to 6 inches in diameter. The upper portion of the root is a deep purplish red, the lower portion clear milky white. Fine grained, sweet, and tender. Grown extensively for fall and winter use. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c; 1 lb. 75c.

**WHITE EGG**—White Egg Turnip is an old favorite with both home gardeners and market growers. The roots are of typical egg-shape. The skin is thin and almost white. The flesh is pure white, mealy, fine grained, and entirely free from any hard fibre or woody substance. When prepared for the table, the roots are tender, crisp, and of fine sweet flavor. It is an excellent variety for winter. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c;  $\frac{1}{2}$  lb. 45c; 1 lb. 75c; 5 lbs. \$3.00.

**PURPLE-TOP WHITE GLOBE**—This is a well-known Turnip, also sold under the name of Red-Top White Globe. The roots grow to good size, measuring 6 inches and more in diameter. They are nearly round in shape and show a rich purplish red color on the upper part of the roots which extends above the surface. The lower portion is creamy white. The flesh is white, firm, crisp, and of remarkably mild flavor. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 30c; 1 lb. 65c; 2 lbs. \$1.10; 5 lbs. \$2.45; 10 lbs. \$4.55.



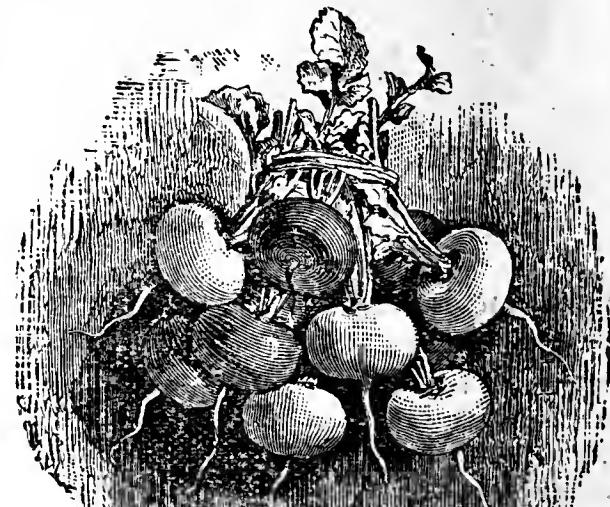
Purple Top Strap-Leaf

**LARGE WHITE GLOBE**—A large ball-shaped Turnip, of uniform size and shape—6 inches in diameter. The white skin is smooth. The flesh is pure white, firm, crisp, and of finely grained quality. A heavy yielder. Postpaid. Pkt. 5c; oz. 15c; 4 oz. 20c;  $\frac{1}{2}$  lb. 35c; 1 lb. 65c; 2 lbs. \$1.10; 5 lbs. \$2.45; 10 lbs. \$4.55.

**EXTRA-EARLY WHITE MILAN**—The bulbs are flat, of medium size, smooth, with crisp white flesh of excellent flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c;  $\frac{1}{2}$  lb. 45c; 1 lb. 75c.

**GOLDEN BALL**—The roots are perfectly globe shaped and have bright creamy yellow skin. They are smooth, regular in shape and size, and of very attractive appearance. The flesh has a pale amber tint and is remarkably fine grained. Golden Ball is a quality Turnip with smooth, mealy flesh, free from woodiness and hard fibre. Postpaid. Pkt. 10c; oz. 15c; 4 oz. 25c;  $\frac{1}{2}$  lb. 45c; 1 lb. 75c.

**COWHORN**—Sometimes called Long White. Slightly crooked. Pure white except a little shade of green at the top. Grows half out of the ground and is of very rapid growth. Is delicate and well flavored. Has proved itself one of the best stock turnips ever introduced in Oregon. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 25c; 1 lb. 75c.



Extra-Early White Milan

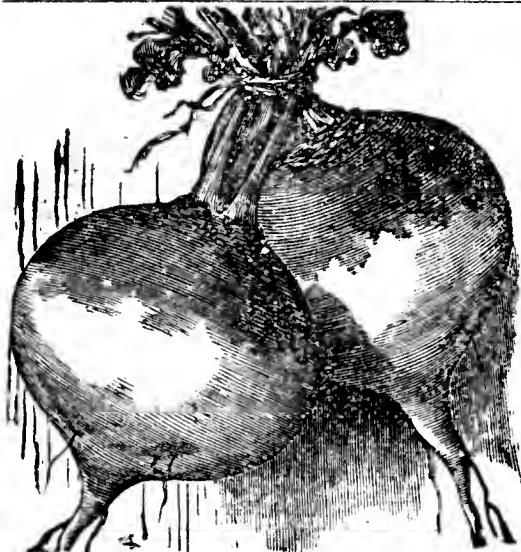
## RUTABAGAS

$\frac{1}{2}$  oz. will plant 100 ft. row; 3 lbs. per acre.

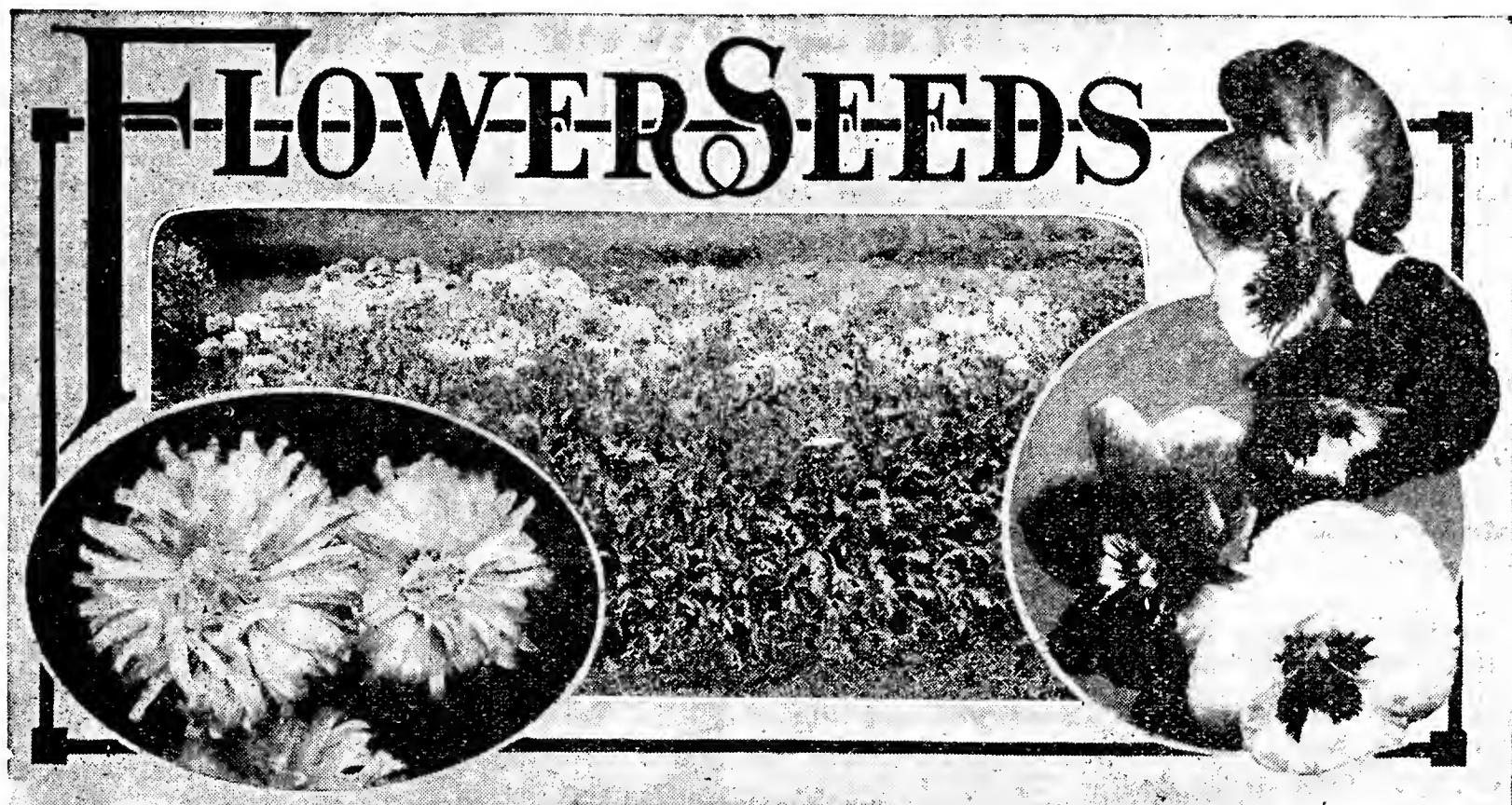
**CULTURE**—Rutabagas, like turnips, may be sown in early spring for summer use or in late summer for fall and winter. For early crop, sow in rows and thin to 4 or 5 inches. The fall crop may be sown broadcast on clean ground, after early crops have been harvested. Our stock of Rutabagas is foreign grown and of highest quality.

**AMERICAN PURPLE TOP OR YELLOW SWEDE** — The most popular and generally grown variety with yellowish skin distinctly colored purple at the top. The flesh is very white and of mild flavor. Postpaid. Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{2}$  lb. 45c; 1 lb. 75c.

**BANGHOLM**—Preferred by many as the neck is slender and tapers toward the roots, making it more easily cut off at harvest. Postpaid. Pkt. 5c; oz. 15c; 2 oz. 25c;  $\frac{1}{2}$  lb. 45c; 1 lb. 75c.



American Purple Top



**ANNUALS** bloom and ripen the first year and then they perish. Many annuals in warm climates, or when taken in, protected during winter, become perennial, with short lives.

**HARDY ANNUALS, BIENNIALS, PERENNIALS**—Can be sown in open ground early in the spring if desired, and Hard Biennials and Perennials require no protection in winter.

Perennials flower several years in succession.

Biennials do not generally flower the first year, and are in their perfection the second year.

**HALF-HARDY ANNUALS, BIENNIALS, PERENNIALS**—Should not be sown in open ground until settled warm weather, though they can be sown in the house if desired, early, and afterwards transplanted. The two latter need to be protected in winter, or carried over until spring in cold frames or greenhouses.

## Asters

Asters grow to their greatest perfection in our mild, cool climate. We offer splendid strains that have been developed by careful attention. For fall flowers they rival the Chrysanthemum in size and beauty.

**CALIFORNIA GIANTS**—They combine the robust habit of growth and length of stem that characterizes the Beauty type and the Crego or Ostrich Feather type of blossom. A true non-lateral variety. White, peach blossom, light blue, deep rose, dark purple and mixed. Pkt. 10c;  $\frac{1}{8}$  oz. 75c.

**CALIFORNIA GIANT SUNSHINE**—Improved Anemone Type. One of the most attractive Asters. Plants are strong and bushy, with many flower stalks. The large single flowers have centers of twisted and quilled petals of contrasting colors. Their delicate beauty and strong stems and keeping qualities make them ideal for cutting. White, pink, lavender, violet, carmine and mixture. Pkt. 10c.

**EARLY BEAUTY ASTERS**—Early flowering type of American Beauty Asters. The bushes grow  $2\frac{1}{2}$  to 3 feet tall, carrying magnificent large flowers.

Purple, flesh pink, crimson, lavender, peach blossom, and mixed. Any of these. Pkt. 10c;  $\frac{1}{8}$  oz. 55c;  $\frac{1}{4}$  oz. 90c;  $\frac{1}{2}$  oz. \$1.55.

**PERENNIAL ASTERS** — Hardy handsome flowers of easy culture, appearing at a time when flowers are scarce. If seed is sown indoors very early and seedlings set in open as soon as large enough to handle, will bloom the first season. Large flowering mixed. Pkt. 10c.



California Giant Aster

**IMPROVED CREGO GIANT**—Distinct in every way. Magnificent flowers of rare beauty, form and color. Very vigorous, long stems and free flowering. White, shell pink, deep rose, crimson, orchid, azure blue, purple. Pkt. 10c;  $\frac{1}{4}$  oz. 50c. Mixed Pkt. 5c.

**HEART OF FRANCE**—The best red Aster to be had. Produces an abundance of large flowers on good stems. Plants of vigorous branching habit. Pkt. 10c.

USE VIGORO IN PREPARING YOUR  
ASTER BED—IT WORKS WONDERS

# Standard Flower Seeds

**AGERATUM** (Blue Perfection)—Attractive, compact bushes with a profusion of small ball-shaped pure blue flowers. Excellent for beds and borders. Postpaid. Pkt. 10c; 1-16 oz. 40c;  $\frac{1}{8}$  oz. 65c.

**ALYSSUM** (Sweet)—A well known variety 10 inches in height with fragrant white flowers. An excellent border plant. Postpaid. Pkt. 5c;  $\frac{1}{4}$  oz. 25c.

(Carpet of Snow)—Low growing, pure white, trailing habit. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

(Little Gem)—A special dwarf variety of Alyssum with masses of pure white flowers. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

(Saxatile Compactum)—This perennial strain of Alyssum is valuable for rock gardens. It produces yellow flowers and is desired by many for its color. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 30c.

**AMARANTHUS TRICOLOR** (Joseph's Coat)—A very showy annual growing to a height of 3 feet. The leaves are variegated in color, red, yellow and green. It is used where a variety of color is needed. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**ANEMONE** (Windflower)—A half hardy perennial 18 inches in height with beautiful delicate flowers. Should be included in the rockery. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**ARCTOTIS GRANDIS** (African Daisy)—These annual daisies grow from 6 to 10 inches tall, producing pure white flowers with lilac under color. Fine for cutting. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**ARABIS** (Rock Cress)—One of the best white flowering perennials for rock garden, blooming very early in the season. It is low growing and is fine for borders or massing. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**ASTERS**—See special flower list on page 22.

**BACHELOR'S BUTTON**—Old favorite annuals growing to a height of 3 feet. The flowers are of various shades of blue, purple, pinks, and white and the foliage is small. Easily grown from seed planted out of doors. Postpaid. Pkt. 5c;  $\frac{1}{4}$  oz. 25c.

**BALSAM**—An annual 1 to 2 feet in height suited to borders or group planting. The rose-like flowers grow in the axil of the leaves and are beautiful in shade and color. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**BLUE LACE FLOWER**—This annual grows 2 feet in height and has lace-like mass of blue flowers. The blooms are produced throughout the season and can be used for cutting and general garden display. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**BALLOON VINE**—A rapid growing climber. Blossoms very small and white. Light, graceful foliage. Bears curiously inflated seed pods. Sow where it is to remain. Succeeds best in light warm soil. 10 to 12 feet tall. Pkt. 10c; oz. 25c.

**CALLIOPSIS**—Always covered with a mass of bright flowers. Sow where plants are to remain. In sunny situation will bloom all summer. Fine cut flowers. 1 to 2 feet tall. Tall single mixed, Pkt. 10c; oz. 35c. Tall double mixed, Pkt. 10c; oz. 40c.

**CANDYTUFT**—(*Iberis*)—One of the most highly prized annuals for beds or masses, very useful for cutting. For early blooms sow indoors, transplanting to garden when 2 or 3 inches high. Sowings every two weeks in the open, will flower from July until frost. Grows 1 to 1½ feet.

**Umbellata Type**—Carmine, flesh pink, rose cardinal, crimson, lavender, white, mixed. Pkt. 10c; oz. 50c. **Coronaria**—Giant white Hyacinth flowered. Pkt. 10c;  $\frac{1}{4}$  oz. 30c.



## CANTERBURY BELLS (B)

**Campanula**—Very ornamental garden plant growing 2½ feet high, producing large, nodding and charming bell-shaped flowers of many exquisite shades; hardy biennial. Sow seeds in May. Keep seedlings well watered and transplant to permanent location in July or August. Give rich soil and plenty of room. **Medium Single**—Blue, rose, pink, white or mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**Calycanthema**—(Cup and Saucer)—White, pink, light blue or mixed. Pkt. 5c;  $\frac{1}{8}$  oz. 60c.

**CALENDULA** (Lemon Queen)—A rich lemon yellow variety with large compact blooms. The plants are used for massing and borders. If cut often will bear throughout the season. Postpaid. Pkt. 10c;  $\frac{1}{2}$  oz. 25c.

**(Orange King)**—Similar in quality to the Lemon Queen but the flowers are of a deep orange color. Postpaid. Pkt. 10c;  $\frac{1}{2}$  oz. 25c.

**(Radio)**—The petals are attractively quilled. The color is a deep shade of golden yellow. The flowers are large and double. Pkt. 20c;  $\frac{1}{4}$  oz. \$1.00;  $\frac{1}{2}$  oz. \$1.75; oz. \$3.00.

**(Mixed Colors)**—An assortment of colors varying from nearly white to dark orange. Postpaid. Pkt. 5c;  $\frac{1}{2}$  oz. 25c.

**CALIFORNIA POPPY**—(*Eschscholtzia*)—They commence to bloom within a few weeks' time from spring-sown seed and continue to flower profusely until late in the autumn, forming nice, bushy plants 1 to 1½ feet high. Colors yellow, red, orange and white. Fine delicate foliage. Sow seeds in Fall or Spring where plants are to remain. Seedlings are difficult to transplant. Thin to 12 inches.

**(Aurantiaca)**—Rich orange, true California Poppy. Pkt. 10c; oz. 35c.

**(Carmine King)**—Deep carmine. Pkt. 10c;  $\frac{1}{2}$  oz. 45c.

**(Golden West)**—Yellow with orange center. Pkt. 10c; oz. 30c.

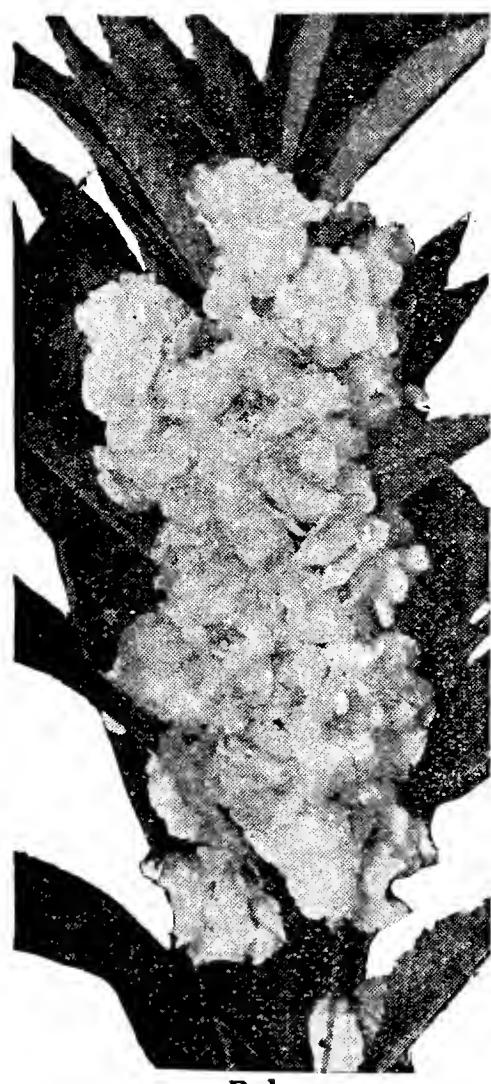
**(Mikado)**—Orange crimson. Pkt. 10c;  $\frac{1}{2}$  oz. 40c.

**(The Geisha)**—Inside petals brilliant gold, outside orange-crimson, petals fluted. Pkt. 15c;  $\frac{1}{4}$  oz. 40c.

**(Mixed)**—Pkt. 5c;  $\frac{1}{4}$  oz. 25c.

**CANARY BIRD VINE**—An annual climbing vine of graceful form. Seed should be sown indoors and the plants set out after frost. The flowers are of peculiar shape and of yellowish color. Plants grow to a height of 10 feet. Postpaid. Pkt. 10c;  $\frac{1}{2}$  oz. 25c.

**CARDINAL CLIMBER**—A vine-like annual with fern shaped foliage growing to a height of 20 feet. It produces fiery cardinal red flowers. A desirable plant for trellis. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.



Balsam

## STANDARD FLOWER SEEDS—(Continued)

**CARNATION (P)** — (*Dianthus Caryophyllus*) — Carnations are tender perennials, being easily winter killed. Splendid for cut flowers, deliciously fragrant. Colors pink, white and red. Sow seeds indoors in March. Transplant seedlings to other boxes when 1 inch high. Keep them growing well until soil is warm, then transfer to open garden. Height 1 to 1½ feet. See Plant Dept. also.

(Chabaud Everyblooming) — Extra choice double mixed. Flowers in five to six months. Pkt. 15c.

(Margaret) — Finest Double Mixed. Bloom in four months from seed. Pkt. 10c; ¼ oz. 50c.

**CASTOR BEAN** — (*Ricinus*) — Tropical appearing foliage plant. Highly ornamental, of stately growth, large leaves of bronze or glossy green. Should not be planted until soil is warm. Grows 3 to 5 feet tall.

(Sanquineus) — Brilliant scarlet stems and fruit. Pkt. 10c; oz. 25c.

(Zanzibariensis) — Surpasses all in size and beauty of colors. Mixed. Pkt. 10c; oz. 25c.

(Best varieties mixed) — Pkt. 10c; oz. 25c.

**CATCHFLY** — (*Silene*) — A hardy annual, yielding for a long time a profusion of umbels of bright colored flowers in various shades of pink. Fine for border or rockery. The plant is covered with glutinous moisture, to which flies adhere; hence its name. Sow in boxes and transplant as soon as large enough. Fine mixed. Pkt. 10c; oz. 45c.

**CELOSIA CRISTATA** — (*Cocks-comb*) Very attractive and showy, producing massive heads of deeply colored flowers. Colors, red, purple and yellow. Sow very thinly in boxes indoors, transplanting to other boxes or thumbpots until little combs appear. Grows 9 to 12 inches tall. **Cockscomb Tall Mixed**, Pkt. 10c; oz. \$1.00.

(Dwarf Fine Mixed) — Pkt. 10c; ¼ oz. 65c.

**CELOSIA PLUMOSA** — (*Feathered*) — Large plumy heads. For pots or open ground. Keeps well when cut. 1 to 2 feet tall. Finest mixed. Pkt. 10c; oz. \$1.00.

(Childsii) — (*Chinese Wool Flower*) — A unique form of feathered coxcomb, growing 2 to 3 feet high, each branch terminated with a large head of rich crimson flowers that look as if made of silky wool. Effective in beds and borders. Valuable for cutting, as they can be dried, retaining their bright colors for weeks. Pkt. 15c; ¼ oz. 75c.

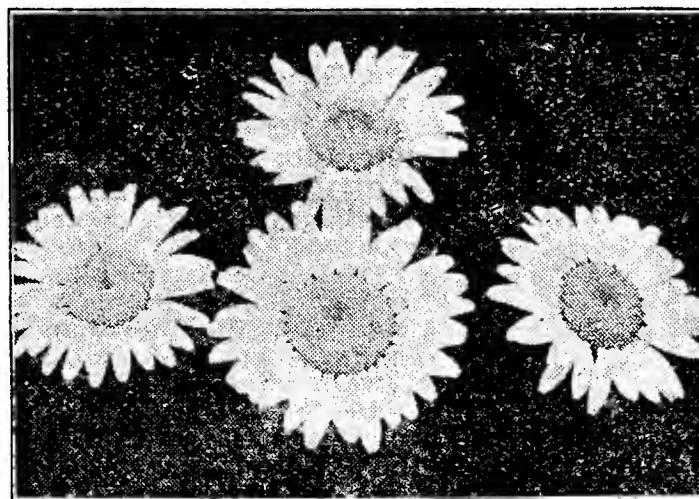
**CENTAUREA** — Sweet scented flowers on long, strong stems. Will last several days when cut. Sow where plants are to remain, thinning to 12 inches apart. Grows 1 to 3 feet tall.

Imperials — (Giant) — Mixed Pkt. 10c; ¼ oz. 35c.

Suaveolens — (*Yellow Sweet Sultan*) — Pkt. 10c; ¼ oz. 30c.

Moschata Mixed — Pkt. 10c; ¼ oz. 30c.

Candidissima — (*Dusty Miller*) — Pkt. 15c; ⅛ oz. 75c.



**CHRYSANTHEMUM** — Very showy, effective and desirable as summer flowering plants. Hardy annuals. Sow seeds in flats very early in spring and transplant to garden when soil is warm. Grows 1 to 2 feet.

(Carinatum Hybrida) — Finest double mixed. Pkt. 15c; ¼ oz. 25c.

(Coronarium) — Double finest mixed. Pkt. 10c; oz. 40c.

**CHINESE LANTERN PLANT** — (*Physalis Franchetti*) — The Chinese Lantern Plant is grown for its showy scarlet red seed-pods which are easily dried for winter bouquets. The plants are perfectly hardy, blooming during June and July. The flowers are white. Easily grown in any kind of soil whether sunny or semi-shaded. Pkt. 15c; ⅛ oz. 35c; ¼ oz. 55c; ½ oz. 95c.

**CLARKIA** — Hardy shrub-like annuals with colored stems and rosy flowers. A very attractive plant for massing and for planting among perennial shrubbery. Postpaid. Pkt. 10c; ¼ oz. 30c.

**COLUMBINE** — Perennial plants with delicate wavy foliage and graceful spurred flowers of attractive colors. Widely used in rockeries and among shrubbery growing well in partial shade. Postpaid. Pkt. 10c; ¼ oz. 50c.

**COREOPSIS** — A beautiful perennial daisy with yellow petals of glossy color and widely used in rock gardens. The flowers are suited to cutting. Postpaid. Pkt. 5c; ½ oz. 25c.

**COSMOS** — Graceful tall growing annuals with fern-like foliage tipped with large flowers of various colors, blooming from mid-summer until frost. Early Single Red Cosmos, Early Single Pink Cosmos, Early Single White Cosmos, Early Single Mixed Cosmos. Postpaid. Pkt. 5c; ¼ oz. 30c.

**CYPRESS VINE** — A rapid growing vine having star shaped flowers. Grows best in warm sunny locations. Postpaid. Pkt. 10c; ¼ oz. 25c.

**DIMORPHOTHECA AURANTIACA** — Extremely showy annual with bushy plants 12 to 15 inches high. Flowers are 2½ inches across. Salmon, white, golden orange and mixed. Pkt. 10c; ½ oz. 75c.

**DAISY (P)** — (*Bellis Perennis*) — Popular low-growing plant bearing beautiful flowers. Hardy perennial. Sow in boxes about August and transplant to cold frame or some location where they may be protected the first winter. Plant in permanent location early in Spring. Height 6 inches.

Extra Double Mixed. Pkt. 10c; ¼ oz. 50c.

Giant Double Monstrosa — Dark red, white, rose-pink. Pkt. 10c; 1-16 oz. 40c.

**Shasta Alaska** — Very hardy; profuse bloomers; flowers very large and borne on long stems, single; petals pure glistening white, dark center. Pkt. 10c; ¼ oz. 50c.

**DELPHINIUMS** — (*Perennial Larkspur*) — "Wrexham" strain of Delphiniums from the North of Wales. The range of colors in this mixture runs from the most delicate combination of mauve and light blue, Crater Lake blue, heliotrope, pink-lavender, creamy-white, deep blue, purple etc.

#### MIXTURE "WREXHAM"

Strain Delphinium, Pkt. 60c.

**OREGON GIANTS MIXED DELPHINIUMS** — Regular packets containing 100 seeds or more each. 50c each.

We also offer the following very excellent collection of the regular standard sorts of Delphiniums for those who desire some of the older and less expensive strains.

**Belladonna** — Light blue. Pkt. 25c; ⅛ oz. \$1.35.

**Bellamoum** — Dark Blue. Pkt. 15c; ⅛ oz. \$1.25.

**FORGET-ME-NOT (P)** (*Myosotis*) — Beautiful spring favorites of easy growth, bearing clusters of lovely, small blue flowers. Can be left in open ground except in very cold latitudes. Fine for borders and shady situations. Sow in box or prepared bed in the open. Height, one foot.

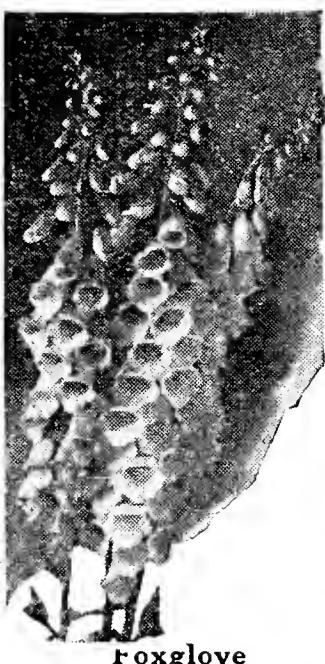
**Alpestris** — Of trailing habit, with pretty flowers. Blue or mixed. Pkt. 10c; ¼ oz. 65c.

**Victoria** — Flowers large, bright azure blue; fine for borders. Pkt. 10c; ¼ oz. 70c.

**FOUR-O'CLOCK**, *Marvel of Peru* — A most useful and showy annual for beds and borders. Excellent for planting in front of the porch or alongside the house. Blooms freely from July until frost. The sweet-scented blooms are open from late afternoon until late morning. Tall, mixed. Postpaid Pkt. 5c; ½ oz. 20c.

Do Best When  
Fed with VIGORO

## STANDARD FLOWER SEEDS—(Continued)



Foxglove

**FOXGLOVE, Digitalis**—In stately appearance the Foxgloves occupy a prominent place among our hardy plants. They are biennials, blooming the second year after sowing. They re-seed themselves very easily and in that way will provide a continuous supply of plants year after year. They succeed well in any ordinary garden soil, and bloom profusely in either the sun or semi-shade. 3 feet high. Fine mixed. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 30c.

**GAILLARDIA**—(Blanket Flower)—Very showy garden plant, with brilliant flowers; free blooming from early summer until autumn; especially effective in masses. Sow early where plants are to bloom.



Gaillardia

Colors crimson and orange. Splendid cut flowers. Height 1 to 2 feet.

**Picta Lorenziana** — Double; finest mixed, annual. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**Picta Single**—Finest mixed. Pkt. 10c;  $\frac{1}{4}$  oz. 20c.

(P) **Grandiflora Maxima**. Pkt. 10c;  $\frac{1}{4}$  oz. 40c.

**GODETIA, Satin Flower**—Mixed. large rose, carmine, pink, cattleya-blue, and pure white blooms with petals having a beautiful silky finish. Blooms during the summer and fall; 12 inches. Postpaid. Pkt. 10c;  $\frac{1}{8}$  oz. 20c;  $\frac{1}{4}$  oz. 30c.

**GEUM (Mrs. Bradshaw)**—An attractive perennial, growing 2 feet tall and bearing double orange-scarlet flowers during summer Postpaid. Pkt. 10c; 1-16 oz. 45c.

(Lady Stratheden)—Fine, double, golden yellow flowers during summer. Postpaid. Pkt. 10c; 1-16 oz. 45c.

**GOURDS, Ornamental**—Ornamental Gourds are easily grown in rich soil where they will produce plenty of fruits. They may be trained on trellises and the ripened fruits used for ornaments. Mixed. Postpaid. Pkt. 10c; oz. 40c.

**GYPSOPHILA, Baby's Breath**—A quick-growing annual, bearing a profusion of small, open, bell-shaped flowers. Gypsophila does well in any soil, particularly if it contains plenty of limestone. Fine for planting in open situations along walls and sunny slopes. Grows 10 to 15 inches tall, and yields plenty of flowers for cutting. Sow the latter part of April. Annual White. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 20c. Perennial White. Pkt. 10c;  $\frac{1}{4}$  oz. 20c.

**HIBISCUS, Mallow Marvels**—Giant mixed. Canes growing 6 feet tall with flowers of giant size in white and shades of pink, rose, and crimson all during the summer. Gives a fine display. Postpaid. Pkt. 10c;  $\frac{1}{8}$  oz. 30c;  $\frac{1}{4}$  oz. 50c.

**HOLLYHOCKS**—Truly handsome flowers of majestic growth. Hollyhocks usually are grown as biennials but they will often last for a number of years if the flowering stalk is cut down as soon as the last bloom on it has faded. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 35c.

fl. pl. strain which is the largest and most double, with the widest range of colors. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**HONESTY**—(Moonwort) (*Lunaria biennis*)—H. B. Flowers blue and white. The large oval silvery seed pouches are quite ornamental in bouquets. Beautiful and curious. Finest mixed, 2 feet high. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**HUNNEMANNIA**—(Giant Yellow Tulip Poppy or Bush Eschscholtzia)—Best of the Poppy family for cutting. Seed sown early in May will, by the middle of July, produce plants covered with their large, buttercup yellow, poppy-like blossoms, and never out of flower until a hard frost. Height 2 to 3 feet. *Fumariaefolia*. Pkt. 10c; oz. 75c.

**HYACINTH BEAN**—(Dolichos Lablab)—Rapid growing, ornamental, climbing annual, bearing clusters of beautiful purple and white flowers, followed by highly ornamental seed pods. Sow seeds early where vine is to remain. Mixed. Pkt. 10c; oz. 15c.

**ICE PLANT**—(*Mesembrianthemum Crystalinum*)—Pretty summer trailing annual for vases and rock work; leaves covered with ice-like drops. Sow seeds early in boxes. Height  $\frac{1}{2}$  to 1 ft. Pkt. 10c; oz. 75c.

**KOCHIA CHILDSII**—(Summer Cypress)—Form symmetrical decorative bushes, foliage green turning to fiery red in autumn. Sow in open and thin to 15 inches. Valuable for summer hedges. Height 1 to 2 feet. Pkt. 5c; oz. 35c.

**KUDZU VINE (P)**—(*Pueraria Thunbergiana*)—Beautiful Japan climber, hardy perennial with fragrant purplish-violet, wisteria-like flowers. Height 10 to 12 feet. Pkt. 10c; oz. 75c.

**LARKSPUR**—The annuals are quite hardy and bloom in late summer months, furnishing flowers of striking beauty in form and color. Tall varieties are suitable for shrubberies and borders, while the dwarf sorts produce charming effects in beds. Height 1 to 2 feet.

**Dwarf Rockets**—Finest colors. Double Mixed. Pkt. 5c; oz. 75c.

**Tall Double Stock Flowered**—Lustrous Carmine, Dark Blue. Light Blue, Rose, White or Finest Mixed. Pkt. 10c; oz. 65c.

**LANTANA**—Finest mixed. This well-known shrubby plant, with clusters of verbena-like flowers, makes a splendid display the first season sown from seed. The plants flower freely throughout the entire summer and can be potted for winter blooming. Height, 18 inches. The seeds require 4 weeks or longer to germinate, but the plants grow quickly. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 20c;  $\frac{1}{2}$  oz. 30c; oz. 50c.

**LINUM**—(*Grandiflorum Rubrum*)—**Scarlet Flax**—One of the most showy bedding plants, fine foliage, with brilliant scarlet-crimson flowers. Pkt. 10c; oz. 60c.

**Perenne (P)**—Pearl blue flowers; graceful. Pkt. 10c;  $\frac{1}{2}$  oz. 40c.



Hollyhock

## STANDARD FLOWER SEEDS—(Continued)

**LOBELIA** — Delicate, low-growing, annual plants of the greatest value for borders, ribbons, edgings, rock work and hanging baskets. Sow very thinly in boxes, covering with glass until seedlings are through surface. Height 6 to 8 inches.

**Gracilis** — Blue, trailing; beautiful for baskets. Pkt. 10c;  $\frac{1}{4}$  oz. 40c.

**Crystal Palace Compacta** — Dwarf flowers, very fine and rich, bright blue; finest for bedding and edging. Pkt. 10c;  $\frac{1}{4}$  oz. 90c.

**MARIGOLD** — Guinea Gold — See outside back cover.

**MARIGOLD** — (*Tagetes*) — A hardy plant in dwarf and tall varieties; foliage bright green and deeply cut. Flowers are various shades of yellow and brown. Sow seeds early in flats and transplant to garden when 3 to 4 inches tall. For specimen plants soil should be light rich and deeply spaded. Height 1 to 2  $\frac{1}{2}$  feet.

**African** — Tall or Dwarf, Double. *Fistulosa* Type Mixed. Pkt. 5c;  $\frac{1}{4}$  oz. 35c.

**French** — Dwarf or Tall Double Mixed. Pkt. 10c; oz. 65c.

**Golden Ball** — New Dwarf. French Double. Compact. Pkt. 10c; oz. 65c.

**Little Brownies** — (*Legion d'Honneur*) — Dwarf Double Brownies. Pkt. 10c; oz. 65c.

**MIGNONETTE** — A sweet scented annual for borders, growing 12 inches tall. Excellent for bouquets. Assorted colors. Postpaid. Pkt. 10c;  $\frac{1}{2}$  oz. 35c.

**MORNING GLORY** — Old fashioned annual climbers for covering trellis or porch. The flowers are bell shaped and of variegated colors. Postpaid. Pkt. 5c;  $\frac{1}{2}$  oz. 25c.

**NASTURTIUM** — (*Golden Gleam*) — See back cover. Pkt. 10c.

**NASTURTIUM** — These hot season annuals should be included in every garden because of their productivity and adaptability. Will grow on poor soils and intense sunlight. The taller varieties are used in porch boxes, allowing them to trail over the edges. Tall mixed. Dwarf mixed. Postpaid. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 75c.

**ORIENTAL POPPY** — Rich scarlet red flowers of value in the perennial garden. The plants are hardy and bloom early in the season before many of the annuals are ready. We believe that this is the best poppy for garden planting. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 40c.

**PETUNIAS, Giants of California** — These petunias are very large, ruffled and fringed and are of a beautiful variety of colors. Our seed will produce as fine flowers as can be grown. Postpaid. Pkt. 25c; 1-32 oz. \$3.00.

**Rosy Morn** — A rosy pink single petunia with white throat. One of the best varieties for the border and mass planting. Postpaid. Pkt. 15c;  $\frac{1}{8}$  oz. \$1.00.

**Elks Pride** — A deep royal purple variety of rich color, used for borders, window boxes and bedding. One of the richest colored varieties every developed. Postpaid. Pkt. 25c; 1-32 oz. \$3.00.

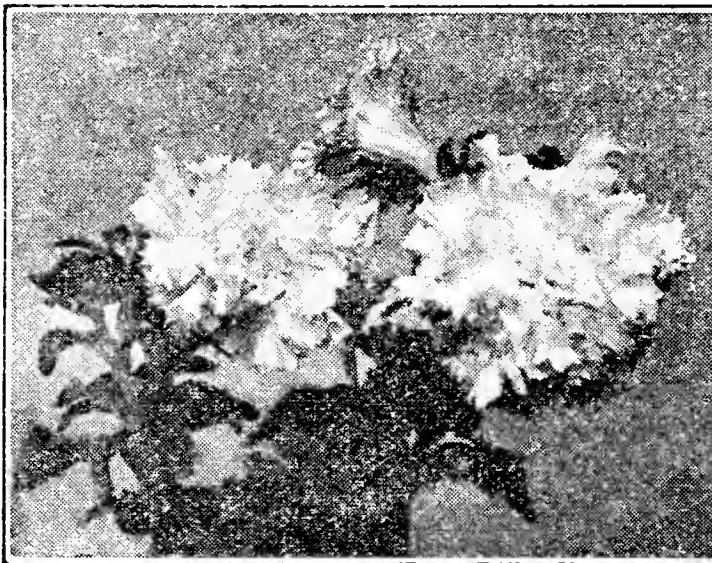
**Balcony Red** — A deep red petunia of the balcony type, suited to window box and borders. The flowers are single and of a rich color. Postpaid. Pkt. 15c;  $\frac{1}{8}$  oz. 75c.

**Petunia** — The common petunia grows well in extreme sunlight and is used in massing, giving a pleasing effect. Easily grown from seed planted in the cold frame and transplanted to the garden after frost. Postpaid. Pkt. 5c;  $\frac{1}{4}$  oz. 40c.

seed to germinate. Mixed, Pkt. 10c;  $\frac{1}{8}$  oz. 60c.

**PHLOX DRUMMONDI** — Unrivaled for richness and beauty of color, ranging from white to the deepest scarlet and purple. For cutting, for bouquets or for bedding in masses they are unsurpassed. Hardy annual, one foot high. Sow as soon as soil is warm. Transplant about one foot apart.

**Large Flowering** — Mixed. Pkt. 5c;  $\frac{1}{4}$  oz. 50c.



**Victorious Double Petunia**

**Victorious** — Giant flowered all double fringed Petunia. Dwarf compact plants. Blooms 100% double, 80% of these being very large flowers. All nicely fringed. Has wide range of brilliant colors. Finest for pots and borders. Trial Pkt. 50c.

**PHLOX DECUSSATA (P)** — (*Perennial*) — Large compact heads of bloom from mid-summer until Fall. Height 2 to 4 feet. Wide range of colors. Sow seeds early

10c;  $\frac{1}{8}$  oz. 75c.

**Single and Double Mixed**. Pkt. 5c.

**PENTSTEMON** — Where winters are mild this may be grown as a perennial, but in most sections it should be treated like an annual. Sow the seed thinly, early in the spring, indoors in boxes. Grows 2 to 3 feet tall, bearing an abundance of long flower-spikes set with large blooms in many bright colors. Postpaid. Pkt. 15c; 1-16 oz. 35c;  $\frac{1}{8}$  oz. 55c;  $\frac{1}{4}$  oz. 95c.



**Phlox Drummondi**

in boxes and transplant seedlings once before placing in permanent location. Usually blooms the first season. Requires 5 to 6 months for

**PORTULACA** — (*Rose Moss*) — Brilliant dwarf annuals, only 6 inches high, luxuriating in warm situations and blooming profusely in early Summer to Autumn. For low beds and masses of color from spring until frost they are indispensable; the colors range through innumerable shades of red, yellow, pink white, striped, etc. Sow seed indoors. Thrive best in hot and dry situation.

**Single Mixed**, Pkt. 10c;  $\frac{1}{4}$  oz. 45c.

**Double Mixed**, Pkt.

10c;  $\frac{1}{8}$  oz. 75c.

**Single and Double Mixed**. Pkt. 5c.

**PHYSALIS, Chinese Lantern** — A hardy perennial suitable for growing in waste corners of the flower garden. The flowers are small and inconspicuous but the seed pod develops a large orange colored ball similar to a lantern. These pods are produced at intervals on the stems and make fine winter decorations for the home. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**PINKS** — Old fashioned flowers producing a variety of colors. Useful for beds and borders as they are low growing. Postpaid. Pkt. 5c;  $\frac{1}{4}$  oz. 35c.

**POPPY, Double Carnation Flowered** — These ball-like flowers are very attractive in the annual garden and grow readily from seed planted out of doors. Plants 3 feet tall. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**POPPY, Flanders** — Brilliant scarlet memorial of the fields of Flanders. Postpaid. Pkt. 10c;  $\frac{1}{2}$  oz. 25c.

## STANDARD FLOWER SEEDS—(Continued)

### GIANT PANSIES, Oregon Giants

This strain differs from others in that the flowers are somewhat more flattened, but this characteristic adds considerably to the size of the blooms, which, if well grown, measure 4 in. across. The originator exhibited such blooms at the Oregon Flower show in 1928. A graceful wave adds beauty to the flowers that excel others Pansies in size and embrace as fine a color range as any. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. \$1.00.



**TRIMARDEAU or Giant Mixed** — These Pansies include an assortment of color that is perhaps more varied than that found in even more expensive strains. You will find in the mixture all the colors described under this heading and many other giant-flowering varieties with flowers of exquisite form and unique coloring. It is a perfectly beautiful large-flowering strain that will serve well where large flowers and color range are wanted. Postpaid. Pkt. 5c;  $\frac{1}{8}$  oz. 35c;  $\frac{1}{4}$  oz. 55c; oz. \$1.65.

**POPPY, Shirley**—Single flowered poppies with soft hairy foliage. Because of their delicate shades of color, they are desired for the annual garden. Postpaid. Pkt. 5c;  $\frac{1}{2}$  oz. 25c.

**PYRETHRUM, Golden Feather**—A dwarf variety used for borders. It is a perennial plant with golden yellow foliage. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 40c.

**PYRETHRUM ROSEUM (P)** — Single Hybrids Mixed—Pkt. 10c;  $\frac{1}{8}$  oz. 45c. A lovely flower of easy culture and should be more generally grown. They resemble large daisies, but of various shades of pink, deep red and purple and make a pretty show in the garden. They also make handsome cut flowers, having stems 1½ feet long. The plants are perfectly hardy; grow 2 feet high.

**SALVIA, Scarlet Sage** — Salvia should not be transplanted to the permanent bed until frost is passed. The flower spikes are of brilliant color and the foliage dark green making a desirable contrast of color in mass planting. Postpaid. Pkt. 10c;  $\frac{1}{8}$  oz. 30c.

**Salvia Splendens, Bonfire, Fireball**—Postpaid. Pkt. 10c;  $\frac{1}{8}$  oz. 30c.

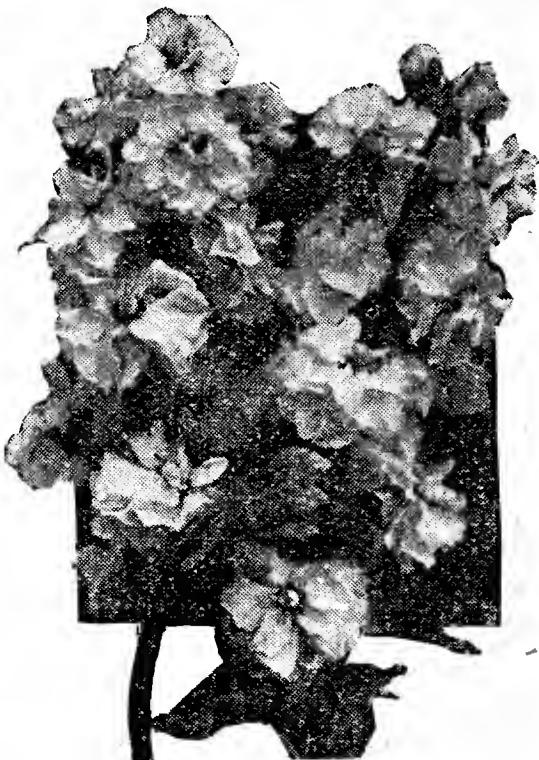
**SALPIGLOSSIS**—You should grow this beautiful annual. The plants grow about 3 feet tall, the flowers are bell-shaped, with delicate markings and velvety appearance. Grown in a wide range of colors and used for massing and cut flowers. Postpaid. Pkt. 5c;  $\frac{1}{4}$  oz. 35c.

**SCABIOSA, Mourning Bride**—Flower stalks 2 feet tall, with inconspicuous foliage and large flat flowers of beautiful colors. Used in mass planting and for cut flowers as they keep well. Mixed annuals. Postpaid. Pkt. 5c;  $\frac{1}{4}$  oz. 20c.

**Dwarf Double**—A smaller variety with large double yellow flowers, very uniform in type and beautiful in appearance. Postpaid. Pkt. 10c; oz. 25c.

**SWEET WILLIAM**—Our stock of this hardy perennial has a wide range of color combinations. The plants bloom early in the season and make excellent borders. Height 2 feet. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**TRITOMA, Red Hot Poker**—Hardy perennials producing a tall flower stalk of brilliant cerise color. Blooms during the early part of the season. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 75c.



**SCABIOSA CAUCASIA**—A perennial Scabiosa with lilac and white colored flowers. Should be included in your rock garden planting. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. \$1.00

**SCARLET RUNNER BEAN**—This bean derives its name from the brilliant flower produced along the runners. It is a pole type of bean and should be trained on a trellis or fence. Should be planted after danger of frost. Postpaid Pkt. 10c;  $\frac{1}{4}$  lb. 20c.

**SWEET SULTAN**—A beautiful annual for baskets and cutting with thistle-like heads. The petals are feathery and soft in texture with lavender, pink and light shades of color. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.

**SNAPDRAGON, Antirrhinum**—One of the most popular semi-hardy perennials for massing and cut flowers. The plants bloom profusely if kept cut off and well fertilized.

**Copper King**—Velvety copper scarlet.

**Ruby**—Rich velvety ruby red.

**Canary Bird**—Canary yellow.

**Othello**—Dark maroon.

**The Rose**—Rose pink.

All Snapdragons postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c. Mixed, Pkt. 5c.

**STATICE, Sea Lavender** — A showy, everlasting flower with fine clusters of showy blooms carried on graceful stems. The plants are not difficult to grow from seed, which, however, germinates rather slowly. Height, 2 to 3 feet. Postpaid. Pkt. 10c;  $\frac{1}{8}$  oz. 25c.

**SUNFLOWER—Mammoth Russian** is the type generally grown for poultry feed and silage. The stalks often reach a height of 10 feet with large disk heads. Postpaid Pkt. 10c;  $\frac{1}{2}$  lb. 15c.

**STOCKS**—These popular flowers are easily grown, and are so highly fragrant and of such beauty they deserve a place in every garden. Should be sown under glass in a warm place, giving plenty of air after seedlings are up. Transplant when about 2 inches.

**Imperial Large Flowering Ten Weeks—Choice Mixed**, Pkt. 10c;  $\frac{1}{8}$  oz. 65c.

**Dresden Perpetual or Branching**—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late autumn. Very fragrant.

**Princess Alice**, white. **La France**, Blush pink. **Brilliant**, Blood red. **Sapphire**, Violet. **Creole**, Canary yellow. **Mary Queen**, Pale blue. **Rose Pink**. Each Pkt. 15c;  $\frac{1}{4}$  oz. \$1.00.

**VERBENA**—The Verbena is an ever popular annual for window boxes, borders, and massing. It is low growing and produces graceful flowers in pink, red, blue and white colors. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**VIOLA**—A perennial similar in culture to the ordinary violet. Flowers, lavender to purple in color. Quite fragrant. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 50c.

**WALL FLOWER**—Half-hardy perennials growing 1 foot in height. Flowers are a rich red and yellow in color. Postpaid. Pkt. 10c;  $\frac{1}{4}$  oz. 25c.



Sweet Peas

est measure of success. The mammoth flowers will appear in clusters of three to four on stems of such extreme length that they will be greatly prized for cut flowers. If you want beautiful blossoms, huge in size, unequaled in color, delightfully fragrant, and in quantity—be sure to plant this mixture. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 65c; lb. \$2.50.

#### EARLY BLOOMING VARIETIES

- Early Marine**—The clearest true blue of all.
- Early Columbia**—Best pink and white.
- Early Giant Rose**—Warm rose pink.
- Early Harmony**—Beautiful lavender, waved.
- Early Oriental**—Clear deep cream.
- Early Silver Blue**—Light shade of lavender.
- Early Snowstorm Improved** — Giant pure white.
- Early Apollo**—Soft salmon cerise.
- Early Vulcan**—Brightest scarlet. Sun-proof.
- Early White Harmony** — Glistening pure white.
- Early Pride**—Deep cerise tinged scarlet.
- Early Springsong**—Bright rose pink, flushed salmon.

Pkt. 10c;  $\frac{1}{2}$  oz. 25c; 1 oz. 45c;  $\frac{1}{4}$  lb. \$1.50  
Postpaid.

## Sweet Peas

**CULTURE**—Ordinary good garden soil is suitable. The ground should be well drained to avoid water lying too long and becoming sour. Select for a location in your garden a place open and airy and which receives the sun all day.

Soil prepared as for vegetables produces fair results, but a little more care will repay the planter. It is well to cultivate and prepare the ground in the Fall, supplying at this time a good amount of stable manure and bone-meal. A mulch of shredded cow manure when started is beneficial.

Inoculate the seed with Nodogen and insure success. Sow in trenches about four inches deep and cover to a depth of two inches, still allowing the center of the trench to remain at least two inches below the level of the ground, that water may be retained.

In case of dry weather, constant watering is necessary to keep the roots cool.

When the vines are about six inches high, staking with brush or trellis should be attended to at once. One ounce of seed is sufficient to plant 20 feet of drill. Spray thoroughly and often to prevent infestation with aphid. We can recommend Ever Green Spray for this purpose.

#### Giant Spencer Flowering Mixture

The lover of fine Sweet Peas will find in this choice mixture of giant Spencer varieties such a wonderful array of colors as to delight him and make him proud to show them to his friends, for we spare no effort to so blend these marvelous ruffled sorts as to make it superior to other mixtures in the market. We aim to include only the most desirable varieties, varieties that are the most certain to thrive and bloom with the greatest

#### STANDARD VARIETIES

- Ascot**—Clear light rose pink.
  - What Joy** — Large, primrose, shaded to cream.
  - Pinkie**—Large flowers in fours. Deep rose pink.
  - Mary Pickford**—Cream pink, faintly tinted salmon.
  - Welcome**—The most dazzling of all scarlets.
  - Flamingo**—Orange scarlet cerise.
  - Sybil Henshaw**—Giant. Deep crimson.
  - Barbara**—Beautiful shade of orange salmon.
  - Gloriosa**—Bright, orange scarlet.
  - Idyl**—Giant flowers in fours. Salmon pink. Waved.
  - Royal Pink**—Large, pure pink.
  - Tangerine Improved**—Rich salmon orange.
  - Austin Frederick Improved**—Pure lavender.
  - Powerscourt**—Clearest lavender.
  - Fortune**—Rich, dark blue.
  - Youth**—Pure white edged soft pink.
  - Avalanche**—Giant, pure white.
- Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00. Postpaid.

#### USE VIGORO FOR YOUR SWEET PEAS

Vigoro will make your Sweet Peas bloom larger and with longer stems. Work well into bed before planting and use light applications during growing and blooming period.



# Zinnias

## Bodger's Gold Medal Dahlia-Flowered

Few flowers are so easily grown from seed sown in the open ground or bloom so abundantly and continuously as this hardy annual. Marvelous improvements have been wrought in the newer strains. We recommend them for groups, beds, borders and summer hedges, where they will bloom quite freely, but are incomparably bright during the month of August. Sow seed in the open ground early in the spring or start in hotbed or window and transplant when ground is suitably warmed.

### DOUBLE DAHLIA-FLOWERED ZINNIAS

This mammoth sized, unusual shaped and color perfected type has revolutionized the appearance of our annual gardens during the past few years. They very closely resemble the double decorative type Dahlias in form and in their robust growth. Plants get up to 3 feet in height, with perfect flowers often 6 inches wide by 3 and 4 inches in depth. These range widely as to color, even introducing depth and tones heretofore unknown in Zinnias.

**CRIMSON MONARCH**—One of the best, with immense flowers. A bright and attractive shade of crimson-scarlet. The blooms are of perfect form, borne in great profusion.

**EXQUISITE**—The flowers resemble a large Decorative Dahlia. They are a pleasing shade of reddish rose with deeper rose in the center. One of the most attractive of this type.

**GOLDEN STATE**—An excellent color. Rich golden yellow, shading to orange as the flower ages. Blooms are large, of true Dahlia form, borne on long stems.

**SCARLET FLAME** — A orange-scarlet. A dazzling color; is one of the brightest, always attracting attention. Blooms profusely.

**DREAM**—The large flowers are a distinct shade of deep lavender, shading to purple as they age. Very large and of fine form. A free bloomer of strong and sturdy growth.

### GIANTS OF CALIFORNIA

The great advantage of this type is that the very large flowers are of enormous size and flat, getting away from the conical type of the Giants and eliminating the stiffness that has been so objectionable in Zinnias in the past. The flowers from the time they open are attractive, making them a good cut flower from the early bud until they are in full bloom. They are twice the size of the ordinary Giants.

**ENCHANTRESS**—Color same as Exquisite in Dahlia Flowered type.

**LEMON QUEEN**—Lemon orange.

**ORANGE KING** — Cadmium or burnt orange.

**ORIOLE**—Considered the most beautiful of its class. Immense orange and gold bicolor, changing slightly as it ages.

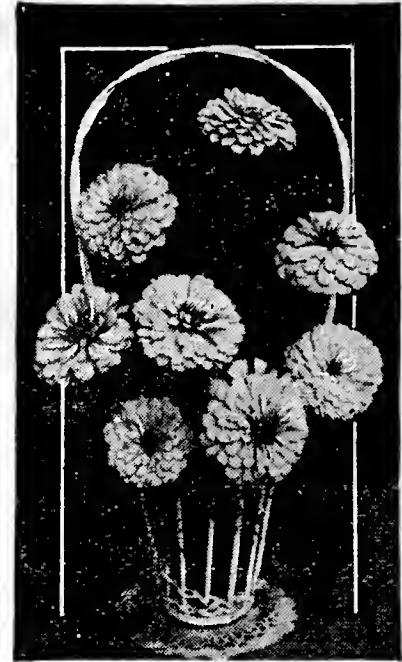
**METEOR**—A rich flowing deep red, the darkest of all the red shades, fine form. Very large and greater bloomer than other reds.

**BUTTERCUP**—An immense deep creamy yellow. Very desirable and should be included in every collection.

**OLD ROSE**—Real old rose, for charm and beauty ranks next to Exquisite.

Separate Colors. Pkt. 10c;  $\frac{1}{8}$  oz. 60c.

**DAHLIA-FLOWERED MIXTURE**—This is a complete Mixture of Dahlia-flowered Zinnias, including all the above separate colors and many other beautiful and rich shades. Pkt. 5c;  $\frac{1}{4}$  oz. 50c;  $\frac{1}{2}$  oz. 95c; oz. \$1.75.



**WILD CUCUMBER**—One of the most rapid growing vines for covering trellis or for shading windows. The seeds are very hard and should be scarified before planting. Fall sown seed will generally germinate by early spring. Postpaid. Pkt. 10c; oz. 25c.

**WILD FLOWER GARDEN**—A well balanced mixture of flower seeds suitable for planting in corners and vacant areas around the garden. Postpaid. Pkt. 10c; oz. 25c.

## FLOWERS

Should be Protected  
From Insects.

See that you keep a  
quantity of the new  
Evergreen handy for  
use at time needed.

## A Condensed List of Plants

	Each	Doz.	50	100	1000
CABBAGE, Early and Late Varieties, transplanted.....	.....	.20	.65	1.00	6.00
CABBAGE, Early and Late Varieties, Field Grown.....	.....	.10	.35	.50	3.00
CAULIFLOWER, Early, Transplanted .....	.....	.25	.75	1.25	7.00
CAULIFLOWER, Early, Field Grown .....	.....	.15	.40	.75	5.00
CELERY, White and Golden Self Blanching, Trans.....	.....	.20	.65	1.00	6.00
TOMATOES, All Varieties, Transplanted .....	.....	.25	.75	1.10	8.00
EGG PLANT, Transplanted .....	.....	.25	.75	1.10	8.00
PEPPERS, All Varieties, Transplanted .....	.....	.25	.75	1.10	8.00
LETTUCE, New York, Transplanted .....	.....	.20	.40	.60	4.00
SWEET POTATOES .....	.....	.25	.65	1.00	7.00
ASPARAGUS ROOTS, 1 year .....	.....	.25	.75	1.00	6.00
ASPARAGUS ROOTS, 2 years .....	.....	.40	.85	1.50	1 0
ASPARAGUS ROOTS, 3 years .....	.....	.50	1.50	2.25	15.00
RHUBARB ROOTS, 1 year .....	.10	1.00	.....	.....	.....
RHUBARB ROOTS, 2 years .....	.20	1.50	.....	.....	.....
RHUBARB ROOTS, 3 years .....	.35	3.00	.....	.....	.....
HORSERADISH .....	.....	.30	1.00	1.50	10.00
MINT .....	.10	.75	.....	.....	.....
SAGE, 1 year plants .....	.15	1.25	.....	.....	.....
STRAWBERRIES, Everbearing Mastodon .....	.....	.40	1.25	2.00	12.00
STRAWBERRIES, Everbearing Progressive .....	.....	.40	1.00	1.75	9.00
STRAWBERRIES, Standard, Glen Mary, Marshall Sen. Dunlap, New Oregon, Howard, Premier .....	.....	.....	.65	1.25	6.50
	Each	10	50	100	1000
RASPBERRIES, Red, Latham, Cuthbert .....	.15	.75	2.25	4.00	.....
RASPBERRIES, Everbearing .....	.20	1.50	4.00	8.00	.....
RASPBERRIES, Black, Gregg or Cumberland .....	.20	1.50	4.00	8.00	.....
LOGANBERRY .....	.20	1.50	6.50	13.00	.....
BLACKBERRY, Mersereau, Snyder .....	.20	1.50	6.00	12.00	.....
DEWBERRY, Leucretia .....	.20	1.50	6.00	12.00	.....
YOUNGBERRY .....	.35	2.75	.....	.....	.....
GRAPES, Concord, Moore's Early, Worden, Agawam, Niagara .....	.25	2.00	.....	.....	.....

**NOTICE—All Prices F. O. B. Lewiston, or Spokane. Add Postage at Zone Rate, or We Will Ship by Express.**

### Ornamental Vines

	Each	10		Each	10
CLEMATIS, Paniculata .....	.40	.....	TRUMPET VINE, Bignonia	.....	.....
Jackmani, Ramona, Andre .....	.75	.....	Radicans .....	.40	.....
HONEYSUCKLE, Halls, Belgica .....	.40	.....	DUTCHMAN'S PIPE .....	.50	.....
ENGLISH IVY .....	.35	.....	BOSTON IVY .....	.40	.....
KUDZU VINE .....	.35	.....	ENGLEMAN IVY .....	.40	.....
			HOP VINES .....	.15	1.00

### Deciduous Shrubs

	Each	10		Each	10
ALMOND, Flowering .....	.75	.....	P. G. Tree Form .....	1.50	.....
BARBERRY, Japanese .....	.35	2.50	HONEYSUCKLE, Tartarian Pink .....	.40	3.50
New Jap Red Leaf .....	.65	.....	KERRIA, Japonica Dble. ....	.60	.....
Common American .....	.50	4.00	PHILADELPHUS, Virginalis .....	.40	.....
BEAUTY BUSH .....	.75	.....	PRIVET, English .....	.40	3.50
BUDDLEIA .....	.50	.....	LILAC, Common Purple .....	.40	3.50
DOGWOOD .....	.40	.....	Common White .....	.40	3.50
CARAGANA .....	.35	2.50	Persian Purple .....	.50	.....
DEUTZIA, Pride of Rochester .....	.40	.....	French, Chas. X; Ludwig Spaeth; Pres. Grevy; Mme. Chantenay .....	.85	.....
FORSYTHIA, Intermedia .....	.40	.....	QUINCE, Jap. Fl. .....	.40	.....
HYDRANGEA, Paniculata .....	.40	.....			
Arborescens .....	.40	.....			

## Shrubs—Continued

	Each	10		Each	10
<b>SPIREA, Anthony Waterer</b>	.40	3.50	<b>SNOWBERRY</b>	.40	.....
Billardi	.40	3.25	TAMARIX, Africana	.40	.....
Prunifolia (Bridal Wreath)	.40	3.25	WEIGELIA, Eva Rathke	.40	.....
Van Houte	.30	2.50	Rosea	.40	.....
Thunbergi	.40	3.50	VIBURNUM, Opulus	.40	.....
Arguta	.50	.....	Opulus Sterilis	.40	.....

## Ornamental Trees

	Each	10		Each	10
<b>ASH, European Mt. 8 ft.</b>	1.25	.....	<b>HAWTHORNE, Paul's Scarlet</b>	2.00	.....
<b>BIRCH, European White</b>	1.00	.....	HORSE CHESTNUT	1.50	.....
Cutleaf Weeping	1.50	.....	LOCUST, Black	1.00	.....
<b>ELM, New Chinese</b>	1.00	.....	MAPLE, Norway	1.25	.....
<b>FLOWERING CHERRY</b>	1.50	.....	Schwedler	1.50	.....
<b>FLOWERING CRAB</b>	1.50	.....	<b>WILLOW, Weeping</b>	1.00	.....

## Fruit Trees

### APPLES

Yellow Transparent, Red June, Gravenstein, Red Astrachan, Jonathan, Delicious, Wagner, Grimes Golden, Rome Beauty, Winesap, MacIntosh Red — Crabs, Siberian, Transcendent. 4 to 6 feet. Each 50c; 10 \$4.00.

### PEARS

Bartlett, Flemish Beauty, Beurre d'Anjou. 4 to 6 feet. Each 50c; 10 \$4.00.

### CHERRIES—Sweet

Bing, Lambert, Royal Ann, Bl. Republican. 4 to 6 feet. Each 60c; 10 \$5.00.

### CHERRIES—Sour

Montmorency, Late Duke, May Duke. 4 to 6 feet. Each 60c; 10 \$5.00.

### PEACHES

Early Crawford, Elberta, J. H. Hale, Slappy. 4 to 6 feet. Each 50c; 10 \$4.00.

### APRICOTS

Moorpark, 4 to 6 feet. Each 50c; 10 \$4.00.

### PRUNES and PLUMS

Hungarian, Italian, Date, Bradshaw, Peach Plum, Yellow Egg. 6 to 8 feet. Each 50c; 10 \$4.00.

## Annuals

	Doz.		Doz.
<b>ASTERS, Calif. Giants, all Colors</b>	.25	<b>MARIGOLD, African or French</b>	.30
Heart of France	.25	<b>PANSIES, Oregon Giants and New</b>	
Yellow	.25	Swiss Giants	.40
<b>ALYSSUM, Little Gem</b>	.30	<b>PHLOX, Drummondi, Mixed</b>	.30
<b>CALLIOPSIS, Mixed</b>	.30	<b>PETUNIA, Rosy Morn, Gen. Dodds,</b>	
<b>CANDYTUFT, Mixed</b>	.30	Howard Star	.30
<b>CALENDULA</b>	.30	<b>PETUNIA, Ruffled Monster, Elks</b>	
<b>CARNATION, Red, Pink, White</b>	.30	Pride, Pride of Portland	.50
<b>COSMOS, Mixed</b>	.30	<b>SALPIGLOSSIS, Mixed</b>	.30
<b>HELICHRYSUM, Mixed</b>	.30	<b>SALVIA</b>	.35
<b>LOBELIA, Dwarf</b>	.30	<b>SNAPDRAGON, Any Color</b>	.30
Trailing	.30	<b>STOCKS, Red, Lavender, Pink</b>	.30
<b>LARKSPUR, Annual</b>	.30	<b>VERBENAS, Mixed</b>	.30
<b>KOCHIA</b>	.30	<b>ZINNIAS, Any Color</b>	.30

## PLANT FOOD

ALL ANNUALS, SHRUBS AND TREES RESPOND TO FEEDING

WHEN SETTING OUT NEW PLANTS MIX VIGORO WITH SOIL, FOLLOWING  
INSTRUCTIONS SUPPLIED WITH EACH PACKAGE

See Vigoro and Fertilizers Elsewhere in This Catalog

## PERENNIALS

	Small Plants Each		Small Plants Each
<b>ALYSSUM</b> , Saxatile .....	.10	<b>DELPHINIUM</b> , Large Flowering	
<b>ARABIS</b> , Alpina .....	.10	Hybrids .....	.10 and .25
<b>ARMERIA</b> .....	.10	<b>SEDUM</b> .....	.10
<b>COLUMBINE</b> , Long Spurred .....	.10	<b>BLEEDING HEART</b> .....	.35
<b>CERASTIUM</b> .....	.10	<b>LINUM</b> , Perennial Flax .....	.10
<b>COREOPSIS</b> , Lanceolata .....	.10	<b>MYOSOTIS</b> .....	.10
<b>DIANTHUS</b> , Clove Pinks Deltoides .....	.10	<b>POPPY</b> , Iceland Oriental .....	.10
<b>GAILLARDIA</b> .....	.10	<b>PYRETHRUM</b> , Roseum .....	.10
<b>GYPSOPHILA</b> , Baby Breath .....	.10	<b>SWEET WILLIAM</b> , Pink, Red, White..	.10
<b>FOXGLOVE</b> , White, Pink, Purple .....	.10	<b>PHLOX</b> , Red, Pink, White, Lavender	.20
<b>CANTERBURY BELLS</b> , White, Pink, Blue .....	.10	<b>SHASTA DAISY</b> .....	.10
		<b>SAPONARIA</b> .....	.10
		<b>HOLLYHOCKS</b> , Red, Pink, Yellow .....	.10

## POPULAR ROSES

50 Cents Each (except where noted)

**EDWARD MAWLEY** (H. T.)—Long pointed buds of deep, rich, velvety crimson. Growth is upright and branching with handsome foliage. One of the finest red roses.

**GEORGE DICKSON**—Very large, full and perfectly formed flowers freely produced. Color, blackish crimson of velvety texture, reverse of petals heavily veined with crimson maroon.

**HOOSIER BEAUTY**—Crimson scarlet with darker shadings, velvety texture. Bud long and pointed, deliciously fragrant. Each 75c.

**HADLEY**—A fine American pedigreed rose producing flowers of elegant form and substance. Color rich crimson scarlet, shaded maroon. A glorious rose. Each 75c.

**KILLARNEY**—The new Irish Beauty. Color an exquisite shade of deep shell pink, lightened with silvery pink. The base of the petals is a soft silvery white relieved with enough yellow to make it more attractive. The buds are exceptionally long and beautifully formed.

**MRS. AARON WARD** (T.)—A deep golden orange color shading out to lemon or creamy yellow at the edge of the petals. One of the

most beautiful roses in existence. Each 75c.

**MAD. BUTTERFLY** (H. T.) — Sport of Ophelia, brilliant pink suffused apricot and gold. Ideal rose.

**MAMAN COCHET** (T.)—Deep rosy pink, the inner side of the petals silvery rose.

**MAD. EDOUARD HERRIOT**—Winner of the Daily Mail Prize. Terra cotta bronze and geranium red, new combination. Each 75c.

**MRS. ALFRED TATE** (H. T.)—Coppery red shaded fawn. Buds are about the longest ever seen on an outdoor rose.

**PRINCE CAMILLE DE ROHAN** (H. P.)—A favorite because of its finely formed, dark blood-red blooms with strong, pleasing fragrance; it is sometimes referred to as the "Black Rose."

**RED RADIANCE** (H. T.) — A sport of Radiance carrying all the good qualities of the parent. Deep red color, large globular flowers. Each \$1.00.

**RICHMOND** (H. T.)—Large, full, fragrant, bright scarlet flowers of excellent quality, long pointed buds.

**SUNBURST** (H. T.)—Fine yellow flowers, strongly suffused with orange at the center, fragrant and well shaped. Plant spreading. Each 75c.

## Climbing, Pillar and Rambler Roses

Two-year-old bushes, field grown 50c each

**AMERICAN BEAUTY**—Rich crimson.

**AMERICAN PILLAR**—Without question, the finest single flowered Climbing Rose. Color clear bright rosy pink.

**CECIL BRUNNER**—Clusters of pretty pink flowers, especially beautiful in bud.

**DR. VAN FLEET**—Beautiful shade of shell pink; immune from mildew.

**GENERAL McARTHUR** (H. T.)—Dazzling crimson scarlet; magnificent foliage. Blooms in great profusion.

**PAUL'S SCARLET CLIMBER**—By all means the most brilliant rose known in any class because of its clear, vivid, shining scarlet in large semi-double flowers.

**WILLIAM A. RICHARDSON**—Color, rich coppery yellow, flushed with carmine; a very beautiful variety, having few equals.

**FLOWER OF FAIRFIELD**—Brilliant crimson, base of petals white.

**PHILADELPHIA RAMBLER**—An improved type of the favorite Crimson Rambler.

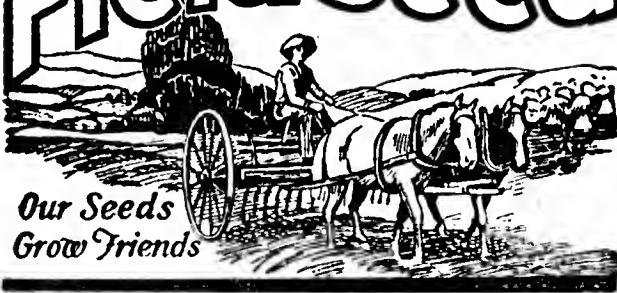
**DOROTHY PERKINS**—Polyanthus type; a beautiful bright shell pink; large double flowers.

**RED DOROTHY PERKINS**—Fine crimson rambler. **TAUSEND SCHON**—A lovely shade of soft pink, free and vigorous.

**YELLOW RAMBLER**—Pure, bright yellow.

**WHITE DOROTHY**—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety, but having pure, white flowers.

# Field Seed



Our "SUPREME" brand is the nearest perfect that can be offered. The seed contains very few, if any weeds, and then only those considered as harmless. It has an excellent color, is free of inert matter, and has a high vitality.

Our "IDEAL" brand is just as free of noxious weeds, but may contain a few harmless weeds, or a slight mixture of other crop seeds that are valuable in a hay crop. A saving in the cost of seed can be had if your crop is not to be used for seed production.

## Alfalfa

Alfalfa yields the heaviest tonnage per acre of any hay crop. Alfalfa hay is relished by all classes of stock. Alfalfa contains a higher percentage of protein, to build muscle and bone, than any other feed produced on the farm. It is especially good for dairy cows. Alfalfa is a wonderful soil builder. Land which has been in Alfalfa for a few years will always produce bumper yields of any other crops.

**GRIMM ALFALFA**—Grimm Alfalfa is a distinct variety which originated in Minnesota. It produces a heavier and more branching root system than the common variety and is more resistant to winter killing and late spring frost. It yields slightly heavier than the common variety and produces variegated flowers. Grimm Alfalfa should be used where winter killing is a problem but elsewhere the common is just as satisfactory.

**STATE CERTIFIED**—Our Grimm Alfalfa seed has been inspected in the field for trueness to name and after the seed is threshed and recleaned it must show a purity of 99.50 or better and be free of noxious weeds. If you are planning on growing alfalfa you should use this grade of seed. Red Tag, 1 lb. 35c; 10 lbs. \$2.75; 25 lbs. \$6.50; 50 lbs. \$12.50. Blue Tag, 1 lb. 37c; 10 lbs. \$3.00; 25 lbs. \$7.00; 50 lbs. \$13.50. Not Prepaid, Red Tag 100 lbs. \$23.00. Blue Tag \$25.00.

**COSSACK ALFALFA** — Very similar to Grimm. Cossack is claimed by some to be more hardy than Grimm. The original seed of this variety was brought from Siberia, but it has been grown in this country for 15 or 20 years. Prepaid 3rd zone. Lb. 40c; 10 lbs. \$3.50; 50 lbs. \$15.00. Not Prepaid. 100 lbs. \$26.00.

**COMMON ALFALFA**—Our Common Alfalfa is mountain grown and has proven very satisfactory for Inland Empire conditions. Prices Postpaid. "Supreme Quality," 1 lb. 30c; 10 lbs. \$2.50; 25 lbs. \$6.00; 50 lbs. \$11.00. Not Prepaid. 100 lbs. \$19.00. "Ideal Quality," 1 lb 28c; 10 lbs. \$2.25; 50 lbs. \$10.00. Not Prepaid. 100 lbs. \$18.00.

**Alfalfas and Clovers Should be Inoculated,  
See Inoculations**

**Prices on all Field Seeds subject to change  
without notice**

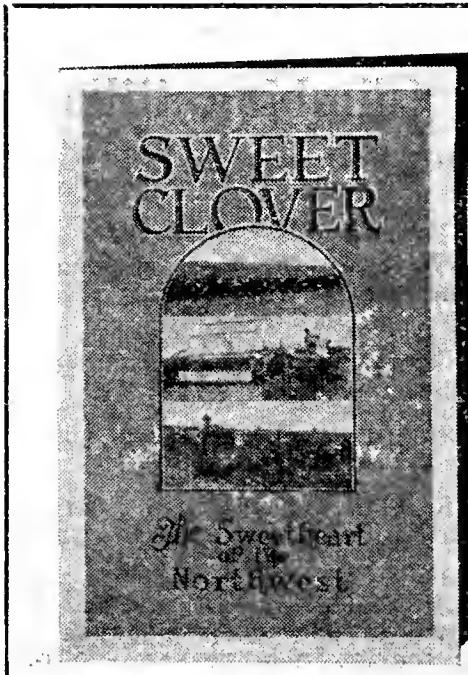
## Sweet Clover

**CULTURE**—Sweet Clover is one of the best crops for soil improvement. It can be sown with a nurse crop of peas or seeded alone in early spring. In some localities it is possible to secure a good stand of alfalfa by seeding a mixture of sweet clover and alfalfa seed. The alfalfa becomes established by the time the sweet clover is gone. If continuous pasture is desired an area should be seeded each season to sweet clover, pasturing the old crop from May until the middle of the summer, then pasture the new crop until fall. If the sweet clover comes too coarse and woody it may be cut and allowed to cure in the field and will be eaten readily. And if cut high, fresh green shoots will come again at once.

**WHITE BLOSSOM SWEET CLOVER**—White Blossom gives the heaviest tonnage and is a heavy nitrogen yielder. Postpaid 3rd zone. "Supreme Quality," 10 lbs. \$1.70; 25 lbs. \$3.75; 50 lbs. \$7.00. "Ideal Quality," 10 lbs. \$1.60; 25 lbs. \$3.50; 50 lbs. \$6.50. Not Postpaid, "Supreme" \$12.00 per 100; "Ideal" \$11.00 per 100 lbs.

**YELLOW BLOSSOM**—Postpaid. "Supreme," 10 lbs. \$1.60; 25 lbs. \$3.50; 50 lbs. \$6.50. "Ideal," 10 lbs. \$1.50; 25 lbs. \$3.00; 50 lbs. \$5.50. Not Postpaid, "Supreme," \$10.00 per 100 lbs. "Ideal," \$9.00 per 100 lbs.

**HUBAM CLOVER**—(Annual Sweet Clover).—An annual white blossom sweet clover, very similar to *Melilotus Alba*. A rapid growing clover, ready for cutting four months after seeding. Makes an ideal crop for turning under or soiling in orchards. Bee men are finding ideal for bee pasture, it being available the first season. Good stock pasture. Seed 20 lbs. per acre. Write for prices.



### FREE

With every \$5 purchase of Field Seeds we are offering absolutely free a copy of this valuable little booklet, "Sweet Clover," or any of the other booklets listed on last page.

## CLOVERS—Continued

### MOUNTAIN GROWN CLOVER SEED

**MEDIUM RED CLOVER**—This is a good year to plant Red Clover. We have a plentiful supply of good Mountain Grown Red Clover seed and the price is cheaper than it has been for years. This Mountain Grown seed is excellent quality, nice, clean seed, and a good hardy strain. Postpaid 3rd zone. "Supreme," 1b. 30c; 10 lbs. \$2.50; 25 lbs. \$5.25; 50 lbs. \$10.00. "Ideal," 1b. 28c; 10 lbs. \$2.00; 25 lbs. \$4.75; 50 lbs. \$10.00. Not Postpaid, "Supreme," \$18.00 per 100 lbs. "Ideal," \$17.00 per 100 lbs.

**ALSIKE OR SWEDISH CLOVER**—It will stand poorly drained, cold, wet soils very well. Where the soil is slightly sour or acid be sure to sow Alsike. It is especially good in pasture mixtures on burned over timber lands. Postpaid 3rd zone. "Supreme," 1b. 30c; 10 lbs. \$2.55; 25 lbs. \$5.50; 50 lbs. \$11.00; "Ideal," 10 lbs. \$2.40; 25 lbs. \$5.50; 50 lbs.

\$10.00. Not Postpaid, "Supreme," \$19.00 per 100 lbs. "Ideal," 18.00 per 100 lbs.

**MAMMOTH RED**—Similar in appearance to the Medium Red Clover but growing larger and maturing later in the season. We suggest a mixture of 6 lbs. of clover to 10 lbs. Timothy per acre. The seed of this variety cannot be distinguished from that of Medium Red Clover. Postpaid 3rd zone. "Supreme," 10 lbs. \$2.75; 25 lbs. \$5.50; 50 lbs. \$10.50. Not Postpaid, 100 lbs. \$19.00.

**LADINO CLOVER**—New clover similar to white Dutch clover only growing much larger. Recommended for pasture. Postpaid. Lb. \$1.00; 10 lbs. \$9.00.

**WHITE DUTCH CLOVER**—Used principally for lawn seeding but often used in pasture mixture. From 2 to 4 lbs. per acre is used for pasture mixtures. Postpaid. "Supreme," 1b. 60c; 10 lbs. \$5.50.

Write for Quantity Prices.

## Vetch

**WINTER OR HAIRY VETCH**—A fine legume for poor land for soil improvement. It is often grown in mixture with winter wheat or fall rye for hay or pasture, and planted alone as a cover crop for orchards. If sown alone, 30 to 40 lbs. are used per acre, or in mixtures with fall grain using one bushel of grain to 25 lbs. of vetch. The grain crop aids in supporting the vetch vines.

**SPRING OR COMMON VETCH**—This vetch produces larger seeds than the winter variety and should be planted in early spring, using 40 to 50 lbs. per acre. Fine for hay or pasture.

Freight extra on 100 lb. lots

	1 lb.	10 lbs.	100 lbs.
Winter Vetch .....	25c	\$1.75	\$12.00
Spring Vetch .....	20c	1.40	8.00

Inoculate your alfalfa, clover and vetch seed

## Soy Beans

Soy Beans have been tried out to considerable extent throughout the warmer sections of Idaho and are giving promise of becoming one of the staple crops for forage and grain feed supplement for live stock of all kinds. The two varieties proving the most adaptable to our conditions are the Manchu and Minsoy. Acclimated seed has been proven to be far superior to seed brought in from other sections as it grows faster and ripens up evener and some two weeks earlier than the Eastern seed.

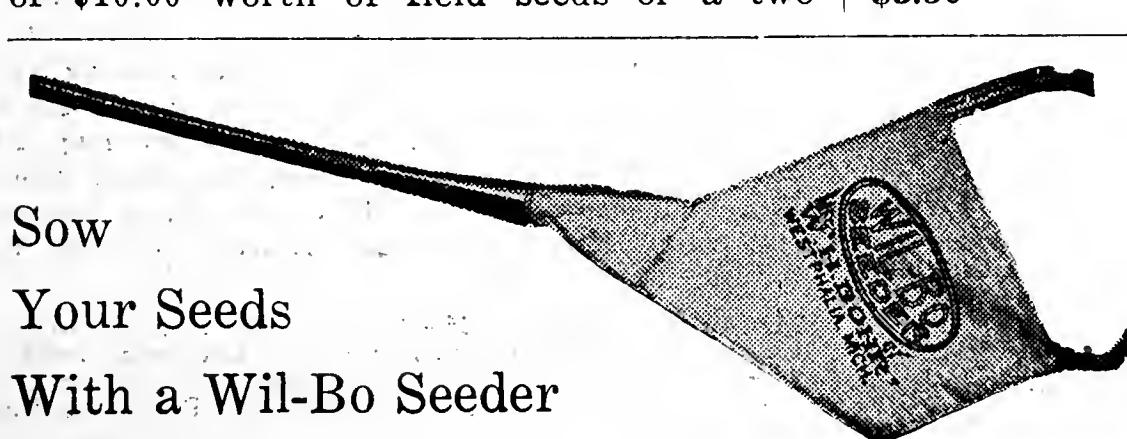
For full information ask for Free Booklet on Soy Beans, given free with each purchase of \$10.00 worth of field seeds or a two

dollar order of vegetable and flower seeds.

Prices postpaid 3rd zone for either Manchu or Minsoy. Lb. 25c; 10 lbs. \$1.50; 25 lbs. \$3.50.



Vetch



Sow

Your Seeds

With a Wil-Bo Seeder

All Field Seed Prices are Subject to Change Without Notice

POSTPAID \$1.25.

## Rape

**DWARF ESSEX RAPE**—Rape is used for hog and sheep pasture, making a rapid growth of succulent feed. It is quite hardy and withstands frost. It is sown in early spring and also late summer, planting in rows to permit cultivation or sown broadcast. From 5 to 12 lbs. of seed is required per acre, depending upon the method of seeding. Rape belongs to the Cabbage family, easily grown and very cheap to plant. Postpaid 3rd zone. Lb. 25c; 10 lbs. \$1.50.

## Grasses

**TIMOTHY**—Timothy hay is in demand by lumber camps for horse feed. It grows best on low land which is well drained and free of surplus moisture. If sown alone use from 10 to 12 lbs. per acre and from 5 to 7 lbs. in mixture with other grasses. Postpaid. "Supreme," lb. 20c; 10 lbs. \$1.25. Not Postpaid, 100 lbs. \$9.50. "Ideal," \$9.00.

**ORCHARD GRASS**—Orchard grass should be used in hay and pasture mixtures for dry land as it is hardy and drouth resistant. It starts early in the spring and produces pasture during the early fall. If sown alone 14 lbs. is required per acre. We suggest a mixture of Orchard Grass 5 lbs., Brome 5 lbs., and Slender Wheat 5 lbs. per acre for a permanent pasture on non-irrigated land, adding a few pounds of clover if a legume is desired. Postpaid. "Supreme," lb. 25c; 10 lbs. \$2.25; 25 lbs. \$4.75; 50 lbs. \$8.50. Not Postpaid, 100 lbs. \$15.00.

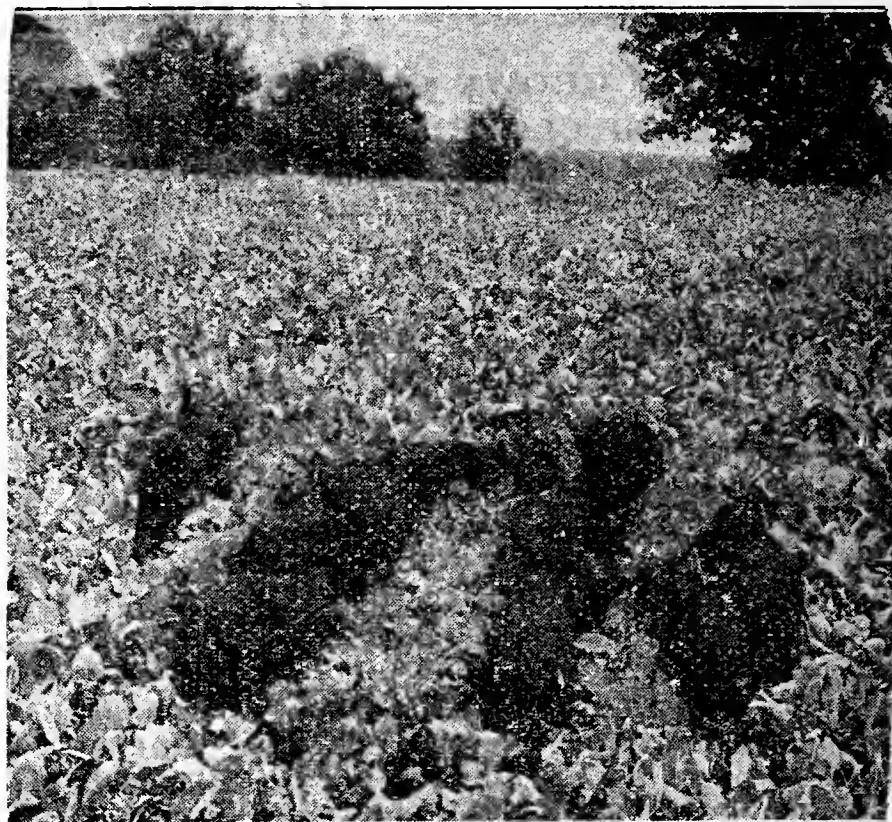
**BROME**—Brome Grass is a hardy sod-forming grass, very drouth resistant, and stands tramping. It is very palatable and nutritious. Postpaid. "Supreme," lb. 30c; 10 lbs. \$2.50; 25 lbs. \$5.00. Not Postpaid, 100 lbs. \$16.00.

**RED TOP**—A fine stemmed hardy grass for wet land. If sown alone 6 to 8 lbs. per acre are used. Postpaid. "Supreme," lb. 30c; 10 lbs. \$2.50. Write for quantity prices.

**MEADOW FESCUE**—A very hardy long-lived grass growing well on wet land as well as drier soils. It makes excellent pasture or hay. It requires about 15 lbs. per acre when seeding alone. Postpaid. 3rd zone. "Supreme," lb. 25c; 10 lbs. \$1.75; 25 lbs. \$3.50. Not Postpaid. 100 lbs. \$10.00.

**SLENDER WHEAT**—A native grass of the northern Great Plains. It is very drouth resistant. It grows in bunches, maturing with timothy. The plants are very erect, leafy, and the heads small and slender. From 12 to 15 lbs. per acre should be used when seeding alone. Postpaid. "Supreme," lb. 40c; 10 lbs. \$3.50. Write for quantity prices.

**SUDAN GRASS**—An annual grass suitable as a catch crop in areas where the growing season is warm and free of summer frosts.



Growing Pigs Enjoy a Field of Rape

It may be drilled in rows wide enough apart for cultivation. This method requires 10 lbs. of seed per acre. If drilled for pasture or broadcast, from 25 to 30 lbs. are required. Postpaid. "Supreme," lb. 20c; 10 lbs. \$1.50; 25 lbs. \$2.75; 50 lbs. \$5.50. Not Postpaid, 100 lbs. \$9.00.

**TALL MEADOW OAT GRASS**—(*avena elatior*)—Often attains a height of 3 to 4 feet by the middle of June. Makes a splendid hay and thrives on sandy loam, but makes its best growth where there is some clay. 10 lbs., postpaid, \$4.00.

**REED'S CANARY GRASS**—A rapid growing perennial suited to localities that overflow or are too wet for other grasses.

It makes a fine pasture and will make a big crop of hay about equal in feed value to timothy. Postpaid. Lb. \$1.00; 10 lbs. \$9.00.

**DOMESTIC RYE GRASS**—Is fine for quick pasture. Well adapted for making up mixtures for burned-over areas. Postpaid. Lb. 25c; 10 lbs. \$2.25; 25 lbs. \$4.50. Not Postpaid, 100 lbs. \$10.00.

## Sunflower

Sunflowers may be used as a silage crop. Experiments show that the quality and feeding value of the silage is comparable to that made from well matured corn. Under similar conditions sunflowers will outyield corn. Sunflowers, when grown for silage, may be drilled thickly in the row by the use of a grain drill, stopping some of the drills to permit cultivation of the crop. They may be sown with a corn planter, spacing the plants from 8 to 10 inches in the row. If a seed crop is desired the plants should be spaced at least two feet in the row.

**MAMMOTH RUSSIAN**—One of the largest varieties with a heavy growth of leaves and large heads. The seeds are striped with black and gray color. Postpaid. Lb. 25c; 10 lbs. \$1.50. Not Postpaid, 100 lbs. \$12.00.

## GRASSES—Continued

### Duthie Pasture Mixtures

**NO. 1 FOR GOOD LOAMY SOIL**—A mixture of Grasses and Clovers, prepared especially for good, loamy soils, that will give satisfaction as a permanent pasture, or for mowing for mixed hay. For pasture, sow 20 pounds per acre. Write for Prices.

**NO. 2. FOR IRRIGATED LANDS** — Use grass pastures and avoid bloat from green alfalfa—Sow 28 pounds per acre, preferably in early Spring. As soon as well established give water as needed. With proper attention a permanent pasture can be maintained. Postpaid, lb. 30c; 25 lbs. \$4.25. F. O. B. Lewiston or Spokane, 100 lbs. \$15.00.

**NO. 3. FOR LIGHT SANDY SOIL**—An extra fine mixture for sandy or light soils. This will make a good, strong turf, that under ordinary circumstances should last for many years. Sow 20 pounds per acre. Write for Prices.

**NO. 4. FOR DRY LAND**—Mixed especially for the regions between the Cascades and Rocky Mountains, and on good, common wheat land. Try this mixture, as we believe that it will give you best possible results. Sow 20 pounds per acre. Write for Prices.

**MIXTURE FOR BURNED-OVER LAND**—In grading and cleaning grasses and clovers, we frequently find combinations that are difficult of separation and while the seeds are often of excellent germination and quality, they cannot profitably be separated and cleaned, so we blend them to produce pasture mixtures suitable for sowing on burns and logged-off land, which at the price are splendid values and very economical for such purposes. Postpaid, 10 lbs. \$2.25. F. O. B. Lewiston or Spokane, 100 lbs. \$13.

### For Lawns, Golf Links

#### PREPARING THE LAWN

The generally used Blue Grass and White Clover mixture is quite satisfactory but does not produce the velvet-like appearance of some of the newer grasses which are being used in the best lawns.

In preparing the seed bed the soil should be thoroughly leveled to insure against its settling and the surface should be loose enough so that the seed will germinate readily. If the soil is light and sandy granulated Peat Moss should be mixed with the surface soil.

Lawn grass can be seeded very early in the spring and in many localities early fall seeding is satisfactory. If it is impossible to keep the surface moist, a light covering of straw or lawn clippings will protect the surface from baking. After the grass seed has germinated this cover can be removed.

It requires about 1 lb. of lawn grass seed to 400 sq. feet of area. If you desire the very best lawn, we suggest using our Supreme Lawn Mixture which is made up of the best grade of grass seeds.

We believe that Bent grass should be used more generally for lawns, sowing it alone. An application of Vigoro followed by sprinkling will increase the vigor of the grass.

**KENTUCKY BLUE GRASS**—One of the most popular grasses for lawns. It produces a heavy sod, is winter hardy, and grows well

where plenty of moisture is available. Postpaid. lb. 40c; 5 lbs. \$1.75. Write for quantity prices.

**SOUTH GERMAN MIXED BENT**—A mixture of Bent grasses used for golf greens and lawns. This grass makes a very firm sod. The foliage is fine and velvety when kept clipped. Postpaid, lb. \$1.25; 5 lbs. \$6.00. Write for quantity prices.

**ASTORIA BENT**—This species of Bent grass was discovered in the fields near Astoria, Oregon and was given that name. It is one of the best species of Bent as the leaves are very fine in texture and dark green. This Bent does well on high ground where moisture can be supplied and makes a beautiful sod. Postpaid, lb. \$1.25; 5 lbs. \$6.00. Write for quantity prices.

**CHEWINGS FESCUE** — A New Zealand grass of fine grayish green foliage, which is very tough and wiry. It is used in mixtures on golf fairways and on lawns subject to heavy wear. The grass must be clipped often and given an abundance of water so that it will retain its color and heavy turf growth. Postpaid. Lb. 65c; 5 lbs. \$3.00. Write for quantity prices.

**WHITE DUTCH CLOVER**—Should be used in mixtures for lawns in need of soil improvement. This clover is a long lived perennial and generally reseeds sufficiently so that it increases yearly. Postpaid. lb. 60c; 5 lbs. \$2.50. Write for quantity prices.

**SUPREME LAWN MIXTURE**—This is our own mixture developed after careful trials. We believe it best for general purposes, as it makes a fine velvety lawn that withstands hard use. It is composed of the grasses listed above, in the right proportion for best results. This mixture is made from the best stock and does not contain chaffy seed. Postpaid. 5 oz. 35c; 14 oz. 75c; 5 lbs. \$3.50; 10 lbs. \$6.50.

**SHADY LAWN MIXTURE**—This mixture fills a long felt want as it gives a fine, velvety turf in shady places where most grasses do not thrive; Postpaid, 1 lb. 65c. Write for quantity prices.

**MIXTURES FOR GOLF LINKS, PUTTING GREENS, FAIRWAYS** — Write for prices stating amount wanted. We make these a specialty.

### VIGORO

Golf greens and lawns are kept in splendid condition by feeding with Vigoro. For best results apply two or three times a season, and it will produce heavy sod of rich green color. You will not be troubled with winter kill.

## Field Corn

7 to 8 pounds of seed required per acre

Our selection of corn varieties is made to meet a wide range of growing conditions

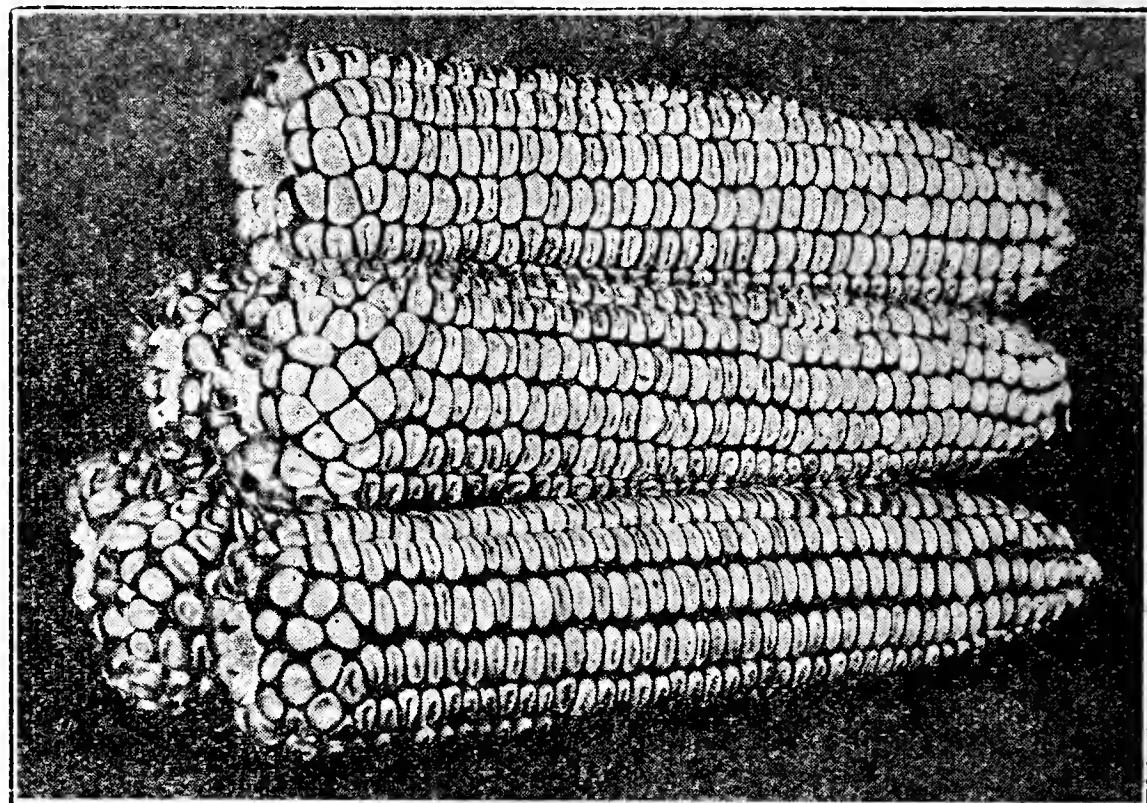
### THAYER YELLOW DENT

—Our strain of this variety was developed by the Agronomy Department of the Washington State College and is very early, producing a heavy yield of forage. One of the best early varieties for this section. Postpaid. Lb. 15c; 10 lbs. 90c; 25 lbs. \$2.00. Not Postpaid, 100 lbs. \$4.00.

**MINNESOTA NO. 13**—A familiar variety developed in the northern part of the corn belt. It is hardy, producing a good leaf growth and nearly as early as Rustler and Thayer. Postpaid. Lb. 15c; 10 lbs. 90c; 25 lbs. \$2.00. Not Postpaid. 100 lbs. \$4.00.

**PRIDE OF THE NORTH**—This corn is medium early in maturing, producing a heavy yield of silage but requiring a somewhat longer growing season than Thayer Yellow Dent. The ears are larger than those of Minnesota 13 with a greater depth of grain. Postpaid. Lb. 15c; 10 lbs. 90c; 25 lbs. \$2.00. Not Postpaid, 100 lbs. \$5.00.

**WASHINGTON GROWN YELLOW DENT**—Makes a quick growth with abundant foliage, maturing early and gives a good grain yield and will make silage of the highest food content. Especially adapted to the Spokane Valley and irrigated valleys of the Pacific Northwest. Postpaid. 1 lb. 15c;



Idaho Yellow Dent

10 lbs. 90c; 25 lbs. \$2.00. Not Postpaid, 100 lbs. \$5.00.

**IDAHO YELLOW DENT**—We have a fine strain of Idaho Yellow Dent, grown in Northern Idaho at an elevation of 2500 feet. This corn has been selected and grown in the same locality for years. If you want real early maturing corn, and one that will give a good yield, order this stock. Prepaid. Lb. 15c; 10 lbs. 90c; 25 lbs. \$2.00. Not Postpaid, 100 lbs. \$4.00.

**IDAHO WHITE DENT**—Ears are large and uniform, with grain of good depth, very early and a heavy yielder. Postpaid. Lb. 15c; 10 lbs. 90c; 25 lbs. \$2.00. Not Postpaid, 100 lbs. \$4.00.

## Spring Grains

### Hulless Oats

Hulless oats grow like common oats and look much like them in the field but when threshed the hulls separate from the oat kernel leaving the bare meat.

They make the finest poultry feed that can be raised on the farm. They will take the place of oat groats for the young chicks and turkeys and are claimed by many to equal the prepared rolled oats that we use for breakfast food and have been in the habit of buying from the store at a high price. Postpaid, 1 lb. 20c; 10 lbs. \$1.00. Not Postpaid, 100 lbs. \$3.50.

**MARKTON**—A smut resistant white oat which has produced maximum yields throughout the northwest on irrigated as

well as nonirrigated land. It is medium late in maturity. The grains are medium in size, with a very thin hull, producing very few double grains. Our stock of Markton oats was grown on our own seed farm, and is very high quality. Postpaid, 10 lbs. 80c. Not Postpaid, 100 lbs. \$2.00.

### Flax

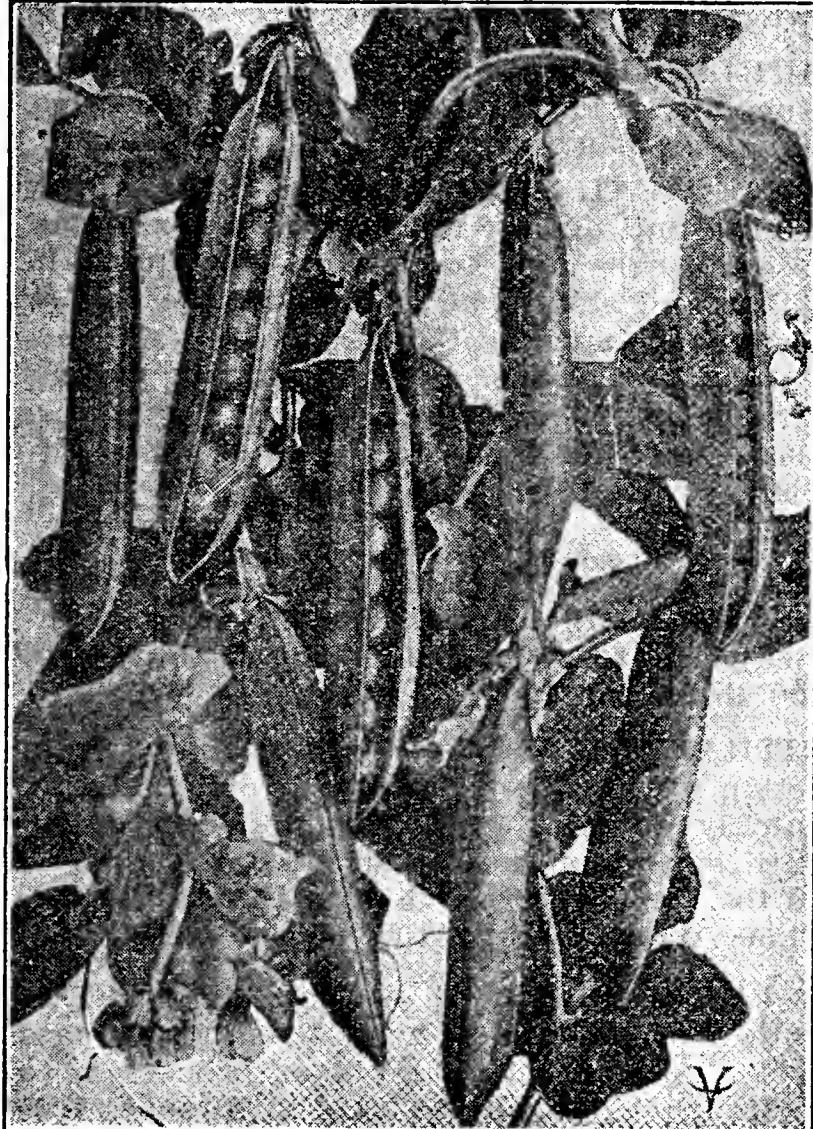
**FLAX** is grown to a limited extent throughout the northwest for grain. In the Willamette Valley in Western Oregon, it is grown for fibre. It should be planted much more extensively throughout the Inland Empire on land free of weeds after frost danger is past, seeding about 30 lbs. per acre. Yields as high as 30 bushels per acre under favorable conditions and pays better than grain. Postpaid. Lb. 20c; 10 lbs. \$1.25. Not Postpaid, 100 lbs. \$3.50. Write for quantity price.

## SPRING GRAINS—Continued

### Barley

**WHITE HULLESS**—White Hulless Barley is grown for hay as well as grain. It can be planted with peas and grown for silage as well. Because of its being beardless it is desirable as a hay crop. Postpaid. 10 lbs. \$1.00. Not Postpaid, 100 lbs. \$2.50.

**BEARLESS**—This barley matures early and is used for hay and for silage. The grains have short points at the top instead of long barbed-like beards. Postpaid. 10 lbs. 90c. Not Postpaid. 100 lbs. \$2.00.



Alaska Peas

### Rye

**WINTER RYE**—Winter Rye is often planted in the spring for pasture. Some farmers sow 20 to 30 lbs. Winter Rye with Sweet Clover in the early spring to reduce the chance of bloat in live stock and to increase the feeding value of the pasture.

**SPRING RYE**—Similar to the Winter variety except that it matures a grain crop when planted in the spring. The straw is not so heavy as in the winter variety but the grains are similar in size.

Either variety. Postpaid, 10 lbs. 90c; 50 lbs. \$2.50. Not Postpaid, 100 lbs. \$2.50.

### Field Peas

All of our peas are thoroughly fumigated and cleaned to remove weevil and are put up in excellent condition for seed. You cannot afford to plant seed that is not treated and properly cleaned.

**ALASKA**—An early maturing pea with slender vines growing to a height of 2 feet. The pods are straight, blunt, and well filled, all maturing at about the same time. The seed is smooth, round, dimpled, and of light blue color. Not Postpaid. 100 lbs. \$6.50.

Write for prices on larger quantity.

**WHITE CANADIAN**—The plants of this are ranker in habit of growth and later than the Alaska. The pods are produced in clusters toward the top of the plant. The seeds are small, smooth, and of light cream color. Not Postpaid. 100 lbs. \$5.00.

### Field Beans

Prices Not Prepaid

	100 lbs.
Red Mexican .....	\$4.00
Red Kidney .....	5.00
Small White .....	4.00

Prices Subject to Market Changes

All F.O.B. Lewiston, Idaho, or Spokane, Wn.

### NOD-O-GEN

#### Nod-O-Gen Easiest and Surest Form of Inoculation

Nod-O-Gen is a scientific pure culture of root nodule bacteria, prepared on special food jelly in bottles with patent stoppers which permit the bacteria to live and breathe and maintain their vigor. Each culture contains plenty of bacteria to inoculate the quantity of seed marked on the bottle. The cost per acre is very small.

Moreover Nod-O-Gen is easiest inoculation to use, requiring no equipment or experience. Takes only a few minutes. Complete directions on every bottle. Results are sure. Buy your Nod-O-Gen when you buy your seed. Always specify names of crop as well as size of culture wanted.

#### PRICES FOR NOD-O-GEN CULTURES

Garden size Peas, Beans and Sweet Peas .....	\$0.25
Half Bushel size Alfalfa and Clovers .....	.40
One bushel size Alfalfa and Clovers .....	.60
2½ bushel size Alfalfa and Clovers .....	1.20
One Bushel size Peas and Beans .....	.40
Five Bushel size Peas and Beans .....	1.00



Expiration Date and High Germ Count on Every Package

#### INOCULATOR PRICES

When ordering, always specify kind of seed.

##### Alfalfa, all Clovers and Lespedeza

Size	Retail
½ bu.....	\$ .35
1 bu.....	.65
2½ bu.....	1.40

##### Peas, Vetch, Austrian Winter Peas and Beans

Size	Retail
½ bu.....	\$ .35
1 bu.....	.50
*1½ bu.....	.80
5 bu.....	\$2.25

\*"100 lb. size." Packed only for Vetch and Peas.

#### Soy Beans and Cow Peas

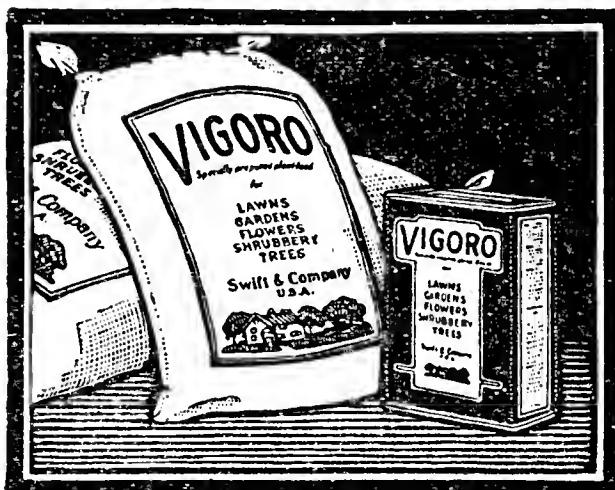
Size	Retail
1 bu.....	\$ .35
2 bu.....	.65
5 bu.....	1.40
10 bu.....	\$2.45

#### Garden Size NITRAGIN

Inoculates from 1 oz. to 8 lbs. seed, Price 25c

Retail Price...25c each

# Fertilizers



This scientifically balanced plant food furnishes all of the nourishment needed to produce beautiful, healthy lawns, flowers, shrubs and trees, as well as delicious vegetables. It is clean, odorless and economical; 4 pounds feeds 100 square feet of lawn or garden, properly. Use Vigoro on everything you grow this year and have greater gardening success. Complete directions included. Trial package, 10c, postpaid, 19c; 5 lbs. 50c, postpaid, 69c; 10 lbs. 85c, postpaid, \$1.15. By express or freight, 25 lbs. \$1.50; 50 lbs. \$2.50; 100 lbs. \$4.00.

**BLOOD MEAL**—Blood cooked, dried and finely ground, a quick acting fertilizer; analyzing very rich in effective nitrogen; in fact, the nitrogen of Dried Blood is one of the most effective forms of organic nitrogen known. This also carries some phosphorus; is a strong fertilizer, a little going a long way. 5 lbs. 40c; 10 lbs. 75c; 100-lb. sack \$5.10.

**SHEEP GUANO**—The best natural manure, dried and ground. Concentrated, soluble; quick in action, and free from weed seed. Splendid for vegetables; fine for roses and flowers. Excellent for lawns. 10 lbs. 25c; 25 lbs. 50c; 50 lbs. 75c; 100 lbs. \$1.25.

**TANKAGE**—Ground meat scraps and bone, dessicated in a vacuum, is very rich in phosphoric acid and nitrogen. Per 100 lb. sack, \$2.50; ton, \$46.00.



**HANDY FERTILIZER SPREADER**  
for the home garden  
and lawn. Model B,  
\$3.50.

Spreads the fertilizer  
evenly and avoids the  
disagreeableness of  
hand spreading

## Red Steer Fertilizers

Each year we are realizing more and more the value of good commercial fertilizer. Many crop failures and unprofitable crops are due directly to lack of proper plant food in the soil. All fertilizers contain three essential plant foods: Nitrogen, Phosphoric Acid, and Potash. In naming the

amount of plant foods available in fertilizer they are named always as given above, that is, a fertilizer that is called 2½-10-20 contains 2½ per cent nitrogen, 10 per cent phosphoric acid and 20 per cent potash. All of our analysis are given for soluble or available plant food only. Unavailable plant foods are of no value to you. We also carry the separate plant food fertilizers.

**O-10-20**—For Apples producing green fruit and too much wood growth; where nitrogen is plentiful. Comes in 125-lb. bags; per cwt. \$2.60; per ton \$50.00.

**3-10-10**—A good all-round fertilizer where conditions are normal. 125-lb. bags; per cwt. \$2.60; per ton \$50.00.

**2.5-10-20**—Soft Fruit Crops where better set and quality is desired. 125-lb bags; per cwt. \$2.90; per ton \$56.00.

**MURIATE OF POTASH**—This fertilizer is especially valuable to fruit trees and berries. 100 lbs. \$3.50; write for quantity prices.

**BONE MEAL FERTILIZER**—This is finely ground and of best quality. Used for lawns, roses, shrubs and trees. Not very quick in action and should be applied in the fall or very early spring. Use 1,000 to 2,000 lbs. per acre. 5 lbs. 30c; 10 lbs. 50c; 100 lbs. \$3.00; write for ton prices.



**SULPHATE OF AMMONIA** — Strong in nitrogen. Will stimulate growth almost immediately. Lb. 10c; 5 lbs. 30c; 25 lbs. \$1.10; 100 lbs. \$3.50.

**NITRATE OF SODA**—It is very quick in action, stimulating rapid growth. Being quickly soluble, it should not be applied until spring on garden truck. Lb. 15c; 5 to 10 lbs. at 7c; 15 to 25 lbs. at 6c; 100 lbs. \$3.50. Write for quantity price.

**SUPERPHOSPHATE** — This is what is known as acid phosphate, being phosphate rock that has been treated or processed, to make the phosphoric acid available. Has become very popular among grain and fruit growers. Use at the rate of 300 lbs. and up per acre. 100 lb. sks. \$2.00; 5 to 10 sk. lots at \$1.75; Ton price, write.

**LAND PLASTER (Gypsum)**—An indirect fertilizer as it releases plant food and changes soil conditions. Used largely on clover and alfalfa. 100 lbs. \$1.00; \$14.00 per ton, F.O.B. Lewiston or Spokane.



Plantabbs are small, clean tablets without odor. Nitrogen, ammonia, phosphoric acid and potash in proper balance. Especially good inside where smelly fertilizers cannot be used.

Plant one tab. let in each pot every two weeks

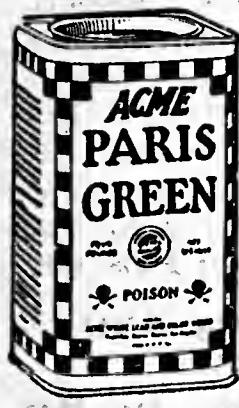
and you'll have the finest flowers you ever grew. 30 Tablets 25c; 75 tablets 50c; 200 tablets \$1.00; 1000 tablets \$3.50, postpaid.



# SPRAYING PAYS

## ACME Insecticides and Fungicides

A RELIABLE BRAND



### ACME PARIS GREEN

For use on: Potatoes, use 3 teaspoonfuls to gallon of water or 1 lb. to 50 gal. for potato bugs; also to mix with arsenate of lead for fruit tree spraying where quick results are necessary.

**1/4 lb. 20c; 1 lb. 50c; 5 lbs. \$2.25.**

### ACME BORDEAUX MIXTURE

Prevents blight, rot, mildew, scab, anthracnose and certain other fungus diseases. Almost every kind of vegetable, fruit and shrub can be greatly improved by the early use of Bordeaux Mixture. Use 8 level tablespoonfuls to a gallon of water; 5 lbs. to 50 gallons of water. **1 lb. 35c; 4 lbs. 75c.**



### ACME ARSENATE OF LEAD

The most favored arsenical insecticide found on the American market. It is safest to use on tender foliage and sticks well on the leaves. Recommended for fruit trees, vegetables, bushes (3 teaspoonfuls to gallon of water). Can be used as dust or spray. **1/2 lb. 20c; 1 lb. 35c; 4 lbs. 75c.**

### ACME GARDEN GUARD

#### Non Poisonous

A garden insecticide and fungicide for use as a dust. No water, no mixing, no muss.

For use on: Cabbage, cauliflower, tomato plants, melon vines, currants and gooseberries and other vegetables, and on flowers and shrubs of many kinds. **1 lb. sifter carton 30c, postpaid, 41c.**



### ACME ALL ROUND SPRAY

Flowers, vines, shrubs, roses, vegetables, need protection. All Round Spray contains the three leading remedies used by all large growers, Arsenate of Lead, Nicotine Sulphate and Bordeaux Mixture. Perfect protection for the small user is assured by complete directions in spraying guide attached to every package. **1/4 lb. 40c; 1 lb. 90c.**



### PROTECTS EVERGREENS

Remove cap and hang tube of Dawg-Gone (opening down) in the lower branches of trees at the points of approach. Not necessary to place tube in every tree unless standing alone. The odor slowly emanating from the open tube will keep dogs at a distance. Replaces unsightly wire screens or mechanical contrivances. Mailable. Tubes, **35c each or 3 for \$1.00.**

### ACME ANT-KILL



Rid your home and premises of the embarrassing and health-injuring ant nuisance. Kill the ants in the nest. Ant-Kill Syrup is sold in connection with safe patented service cups which gives protection

to birds, chickens, pets and children, yet readily accessible to ants who carry the syrup back to the nest. Attractive to Argentine and sweet-eating ants.

One 3-oz. bottle of Acme Ant-Kill Syrup and 5 containers complete **60c**; Extra containers **10c**; Acme Ant-Kill Syrup 3-oz. bottle **25c.**

### ACME LIME SULPHUR

A standard 33° Baume lime and sulphur converted into a dry powder but having all the effectiveness of the liquid product when dissolved in water.

For use in dormant spraying against scale, peach blight, leaf curl and twig borer. Summer spraying against scab, soot, blotch, red spider and mite. **1 lb. 35c; 5 lbs. \$1.40.**

### ACME BAIT-M

#### (Will Kill Cut Worms)

An effective insecticide bait which will throw a ring of protection around shrubs, flowers and plants in garden and lawn. For use against snails, cut worms, sow bugs, grasshoppers, etc. **1 lb. 40c; 3 lbs. 75c.**

## INSECTICIDES and FUNGICIDES—Continued

### ACME APHIS SPRAY



An improved nicotine spray combining a soft fish oil soap with Black Leaf 40, suitable for the control of all kinds of aphid (plant lice), thrip, leaf hopper and many more hardy insects infesting rose bushes, flowers, shrubs, vines, bushes and trees. Mixes easily with any kind of water. Complete directions found with every package.

3 oz. collapsible tube	....\$0.35
12 oz. collapsible tube	.... .95
2 1/2 lb. can	..... 2.25

### ACME CALCIUM ARSENATE

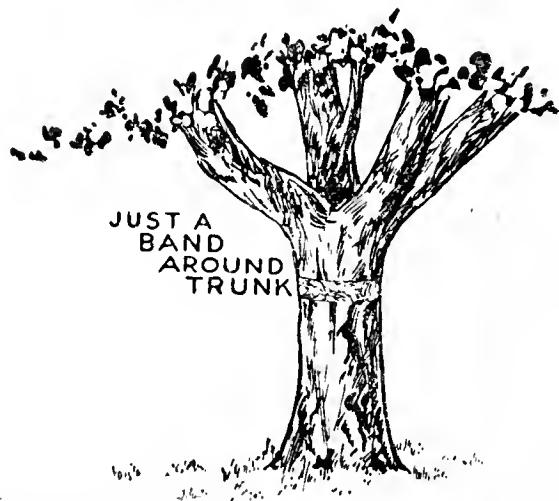
The cheapest arsenical insecticide on the market but of great economy and efficiency for certain purposes. The accepted dust for boll weevil poisoning on cotton; also recommended to combat chewing insects on potatoes, vegetables, cotton and certain fruit trees. 1/2 lb. 20c; 1 lb. 30c; 4 lbs. 60c; 100 lbs. \$13.00.

### ACME M-S-R DUSTING SULPHUR

Keep your roses free from mildew, black spot, leaf spot and other hideous fungous diseases. Acme M-S-R Dusting Sulphur is a tonic for roses, phlox, delphiniums, chrysanthemums, sweet peas, lilacs, snapdragons and carnations — to make these flowers and many other plants yield their full measure of sweetness and beauty. Mailable. 3 lb. sifter carton 40c.



### TREE TANGLEFOOT



For caterpillars, moths and worms. Protects against all climbing insects. One pound makes a band 9 feet long. 1 lb. 55c; 3 lbs. \$1.50; 5 lbs. \$2.50; 10 lbs. \$4.50; 20 lbs. \$9. BLUE STONE (Vitriol)—1 lb. 15c; 10 lbs. \$1.00.

**DR. WILSON DUST MASK**—Protects you from Copper carbonate while mixing with wheat. Postpaid. Each \$2.25.

**FILTER PADS FOR DUST MASK**—100 pads \$1.15. Postpaid.

### ACME LONDON PURPLE



A favored insecticide for 50 years. Now stronger and better than ever. London Purple is one of the lightest and fluffiest powdered insecticides on the market, assuring complete coverage and greatest adhesion to foliage. For use on potatoes, cotton, tobacco, sugar beets and many other shrubs and vegetables affected by leaf chewing insects. 1/4 lb. 15c; 1 lb. 30c; 4 lbs. 60c.

### INCREASE FARM PROFITS AND GARDENING PLEASURES

Prevent Disease Losses by Using Du Bay Seed Disinfectants

**SEMESAN**—for vegetable and flower seeds. Diseases often reduce germination and result in a poor stand, lowered quality and reduced yield of vegetables and flowers. Kill these harmful disease organisms on the seed with Semesan before planting. Semesan may be applied as a dust or liquid and is harmless to seeds. Effective in controlling damping-off of seedlings and certain cuttings. Full directions in can for use on vegetable and flower seeds and bulbs. 2 oz. 50c; 1 lb. \$2.75; 5 lbs. \$13.00; 25 lbs. \$56.25.



**SEMESAN BEL**—for seed potatoes. Potato diseases cause a loss equivalent to the yield of one acre in every five or six acres planted. Much of this loss can be prevented by treating seed before planting with Semesan Bel, the instantaneous dip disinfectant. Effective in controlling such seed-borne diseases as scab, rhizoctonia and black leg. One pound treats 16 to 22 bushels of seed. Not mailable. 4 oz. 50c; 1 lb. \$1.75; 5 lbs. \$8.00; 25 lbs. \$31.00.

**COPPER CARBONATE** for treating wheat—Eighteen per cent copper carbonate is used in dry areas where less danger of smutting is encountered. 5 lbs. 75c; 30-lb. case \$4.50.

**50 PER CENT COPPER CARBONATE**—Used generally by farmers of this section. Universally accepted as best wheat treatment for smut. Sherwin-Williams Brand. 5 lbs. \$1.00; 10 lbs. \$2.00; 40-lb. case \$7.20. Not mailable. Price F.O.B. Lewiston or Spokane.

**GRAFTING WAX**—The old standby of orchardists in the Northwest. Made after a special formula and packed in convenient package with instructions for use. 1/4 lb. 25c; 1/2 lb. 35c; 1 lb. 50c. Add postage.

## INSECTICIDES and FUNGICIDES—Continued



## NEW EVER GREEN SPRAY

and animals. Easy to use. Just mix with water and spray.

**KILL PLANT INSECTS NEW EASY ECONOMICAL WAY**—One ounce of New Ever Green Spray makes 6 gallons of spray against aphids. Deadly pyrethrin content kills both chewing and sucking insects. Harmless to men, plants

	Prices Not Postpaid	
1 oz. bottle .....	\$ .35	6 oz. bottle ..... \$1.00
16 oz. can .....	2.00	1 gallon can ..... 12.00

Can be mailed



### CYAN-O-GAS

Used to control ground squirrels. Sure to get them. Also used effectively on ants, rats and insects. Comes in granular form or dust to use in dust gun.

Prices F.O.B. Lewiston or Spokane. Cannot be mailed

#### SIZE CONTAINERS

	1/2 lb.	1 lb.	5 lbs.	25 lbs.	100 lbs.
Granular .....	50c	75c	\$2.00	\$6.00	\$20.00
"A" Dust .....	50c	75c	2.00	6.00	20.00

### ATLACIDE NON-POISONOUS WEED KILLER AND DUSTER

Atlacide Non-Poisonous Weed Killer and Duster exterminates all undesirable vegetation, including Poison Ivy, Canada Thistle, Johnson Grass, etc., without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses to be killed. Especially recommended for driveways, paths, tennis courts, gutters, etc.

1 lb. Duster ..... 50c, postpaid, 60c.  
(Kills 100 sq. feet of weeds)

#### Bulk Sizes for Refilling Duster or for Making Solution

50 lb. Drum .....	14c per lb.
(Kills 5,000 sq. ft. of weeds)	
100 lb. Drum .....	13c per lb.
(Kills 10,000 sq. ft. of weeds)	
200 lb. Drum .....	12½c per lb.
(Kills 20,000 sq. ft. of weeds)	

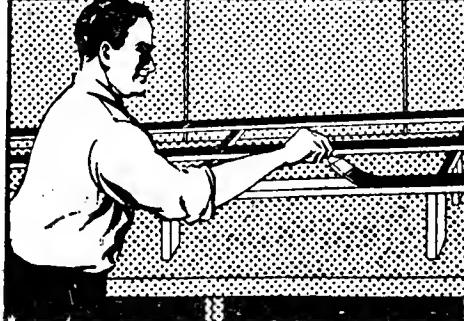
F.O.B. Lewiston or Spokane

**CHEMICAL WEED KILLERS (SODIUM CHLORATE)**—Sodium Chlorate is the most effective chemical known for the eradication of noxious weeds. This fact has been demonstrated many times by tests carried on by several of our leading agricultural experiment stations. Mixed with water and sprayed thoroughly on leaves and stems of Morning Glory, Canada Thistle and Quack Grass, and many other enemies of the farmer, it will work wonders.

Apply after the plants have reached the stage of early maturity. Best results will be obtained if the ground is left unplowed and uncultivated the season in which the Sodium Chlorate is to be applied.

Sodium Chlorate when combined with combustible material is dry and inflammable, by using precautions that are necessary in using other inflammable materials, which are in use daily, this danger is easily avoided. Lb. 20c; 10 lbs. \$1.75; 25 lbs. \$4.00; F.O.B. Lewiston or Spokane.

### 'PAINT THE ROOSTS'



### WITH 'BLACK LEAF 40'

**BLACK LEAF 40** — Destroys aphids, thrips, leaf hoppers on all trees, bush and vine plants, vegetables, field crops, flowers, shrubs; also apple red bug, pear psylla and similar soft-shelled sucking insects—without injury to foliage. It is also a control for poultry lice by painting the roosts with it. Combines readily with other sprays. 40% nicotine. Not mailable.

1 oz. 6 gal. spray .....	\$ .35
5 oz. .....	1.00
1 lb. .....	2.25
2 lbs., 160 to 500 gal. spray .....	3.35
10 lbs., 800 to 2500 gal. spray .....	8.75

## POULTRY AND STOCK REMEDIES—Continued

LEE PRODUCTS	SIZE	ROCKY POST. MT. AND EXTRA WEST'N 3RD STATES ZONE		
LEE'S GEMOZONE (Liquid)....	4-oz. bottle	\$ .40	.05	
" "	12-oz. bottle	.75	.10	
" "	32-oz. bottle	1.50	.16	
" "	* ½-gal. bottle	2.50	.24	
" "	* 1-gal bottle	4.50	.38	
<b>THE GIZZARD CAPSULE</b>				
Adult Size .....	50-cap. pkg.	1.00	Paid	
" "	100 cap. pkg.	1.75	Paid	
" "	250 cap. pkg.	4.00	Paid	
" "	500 cap. pkg.	7.00	Paid	
" "	1000 cap. pkg.	12.00	Paid	
Pullet Size .....	50 cap. pkg.	.75	Paid	
" "	100 cap. pkg.	1.35	Paid	
" "	250 cap. pkg.	3.00	Paid	
" "	500 cap. pkg.	5.00	Paid	
" "	1000 cap. pkg.	9.00	Paid	
Chick Size .....	50 cap. pkg.	.50	Paid	
" "	100 cap. pkg.	.90	Paid	
" "	250 cap. pkg.	2.00	Paid	
" "	500 cap. pkg.	3.50	Paid	
" "	1000 cap. pkg.	6.00	Paid	
<b>LEE'S FLU-KOFF EMULSION</b> ....	12-oz. bottle	1.25	.10	
" " "	... 32-oz bottle	2.25	.16	
" " "	... * ½-gal. bottle	3.75	.24	
" " "	... * 1-gal. bottle	7.00	.38	
Poultry Dosing Syringes .....	1-oz. cap.	.30	Paid	
LEE'S VAOSPRAY .....	1-qt. can	.75	.12	
LEE'S LICE KILLER .....	1-qt. can	.60	.12	
" " "	* ½-gal. can	.90	.18	
" " "	* 1-gal. can	1.50	.28	
LEE'S LOUSE POWDER .....	1lb. can	.30	.10	
" " "	2 ½-lb. can	.60	.12	
LEE'S DIP and DISINFECTANT..	1-qt. can	.75	.12	
" " "	.. * ½-gal. can	1.25	.18	
" " "	.. * 1-gal. can	2.00	.28	
" " "	.. * 5-gal. can	8.00	.96	

**WALKO**—The safe way to raise your chicks. Also used for older chickens. Place in drinking water or milk. Tablets postpaid. Per box, 50c.

**POULTRY PEPPER**—In cold, wet weather it gives tone to the system, puts vim and snap into the birds, and is a great help to egg production. Postpaid. Carton, 12-oz., 25c.

**VITA BRAND COD-LIVER OIL**—The importance of vitamins in the rations of poultry and livestock has been quite clearly defined during recent years. Especially are the fat soluble vitamins, A. and D, important in the maintenance of bodily vigor and prevention and cure of diseases. 5 gal. cans, \$9.00; 1 gal. can, \$2.00; quart cans, 85c. Postpaid.

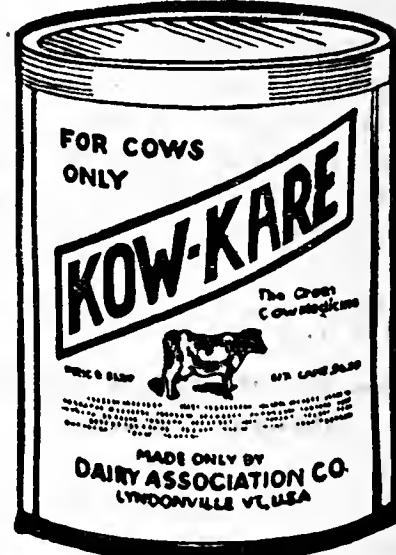
**TOBACCO POWDER** — A very effective agent for controlling round worms in poultry. Used also quite generally in the dust bath for body vermin, and a very effective fumigant when burned in poultry houses. Postpaid. 1 lb. 25c; 10 lbs. \$2.00.



**BAG BALM**—Used for all sores, cuts, scratches, chaps or exterior hurts—for caked bag, bunches and inflammation of the udder. It keeps the teats and udder soft, pliable and easy to milk. Wt. 8 oz., pkg. 60c. Postage extra.

**GRANGE POLK ROOT COMPOUND**—An unsurpassed and positive cure. Wt. 2 lbs., can 65c. Postage extra.

**KOW-KARE**— Makes Poor Cows Good — Good Cows Better, and Makes More Money for Cow Owners Write for complete instructions on the mixing of your own cattle minerals.



**KOW-KARE**—A specific remedy especially for cow diseases, such as Barrenness, Scours, Milk Fever, Caked Udder, Bloating, Red Water, Swelling of Bag, etc. It prevents abortions and removes retained after-birth. It tones up the system, renews vitality, restores appetite to cows that are "off feed," and keeps them healthy. It increases the milk flow, and enables the cows to produce strong, vigorous calves. It is the dairyman's gold mine and a sure profit-payer. Medium cans, Mail wt. 2 lbs. 65c; Large cans, Mail wt. 4 lbs. \$1.25. Postage extra.

# Queen Incubators and Brooders

## NEW LOW PRICES

Prices F.O.B. Lewiston or Spokane

Special Low  
Price 1934

No. 21K, 130 Egg .....	\$21.60
No. 25—Standard, 600 Egg .....	73.30
No. 35—Standard, 825 Egg .....	90.00



Standard

### COAL BROODERS

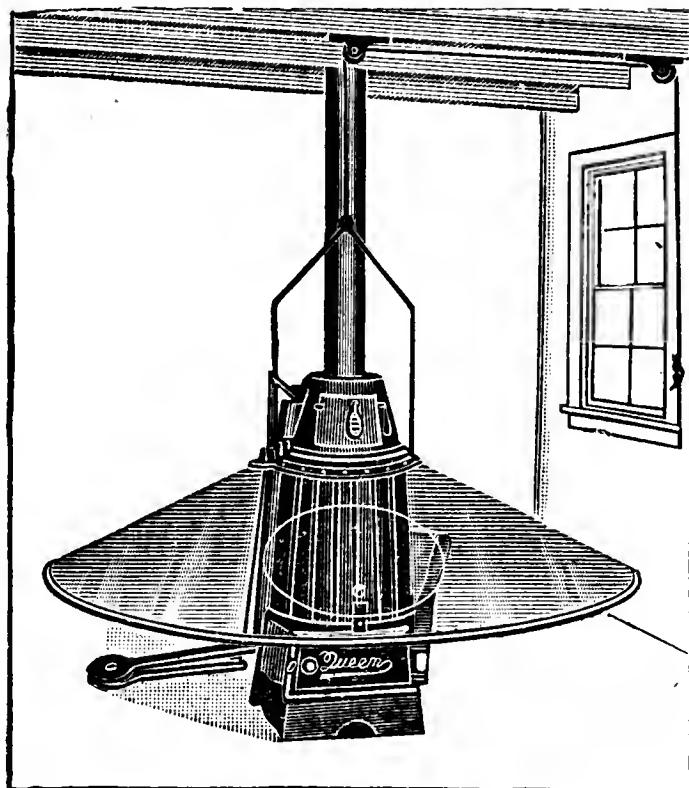
No. 1—42 in. canopy,  
Special price \$16.50.

### QUEEN OIL BROODERS

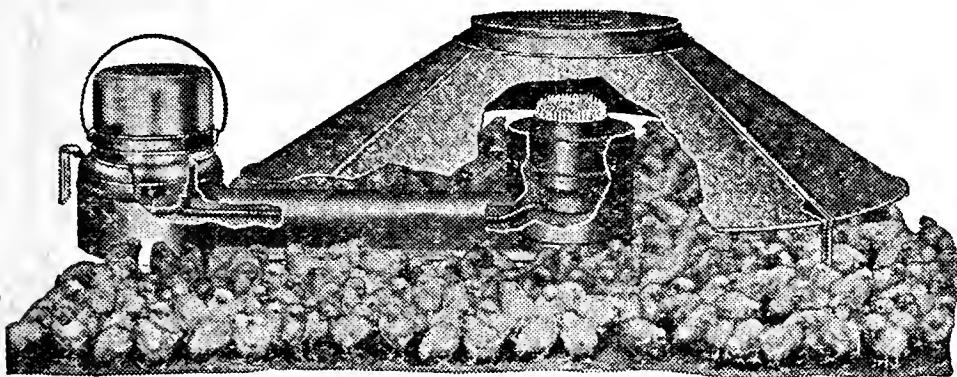
No. 52—500 chick oil burner .....\$16.75

### EXTRAS AND REPAIRS—Postpaid

Wafers, 3 in. for "K" and Brooder Stoves .....	\$..40
Wafers, 4 in. for Standard Queen Incubators..	.60
Thermometers, Incubators .....	1.00
Thermometers, Brooders .....	.60
Combination flue for incubator .....	.50
Lamp complete for "K" Machine (state size and model) .....	2.00
Lamp complete for Standard (state size and model) .....	2.50
Expansion Cup (state size and model) .....	.75
Regulator Complete .....	3.50
Wicks, blue flame, each 5c; per dozen.....	.50
Turning Trays, small .....	4.50
Turning Trays, large .....	6.50



Brooder Stove



### ELECTRIC BROODERS

Holds heat and gives chicks oxygen. Four points by which you can judge brooder stove are: (1) Insulation. (2) Circulation. (3) Positive Regulation. (4) Economy.

42 in. canopy .....	\$15.00
52 in. canopy .....	20.00
62 in. canopy .....	25.00

### LINCOLN BROODER STOVE

With the new double safety over flow

No wicks, automatic, burns distillate or kerosene, no fumes, it ventilates as it heats, double safety overflow pipe carries any overflow outside brooder house. Nothing to buy but stove pipe.

### See This New Brooder

No. 2, 24 inch Drum .....	\$24.00
No. 3, 28 inch Drum .....	28.50
No. 602, 52 inch hover .....	25.50
No. 603, 60 inch hover .....	30.00

### SIMPLICITY OIL BROODERS

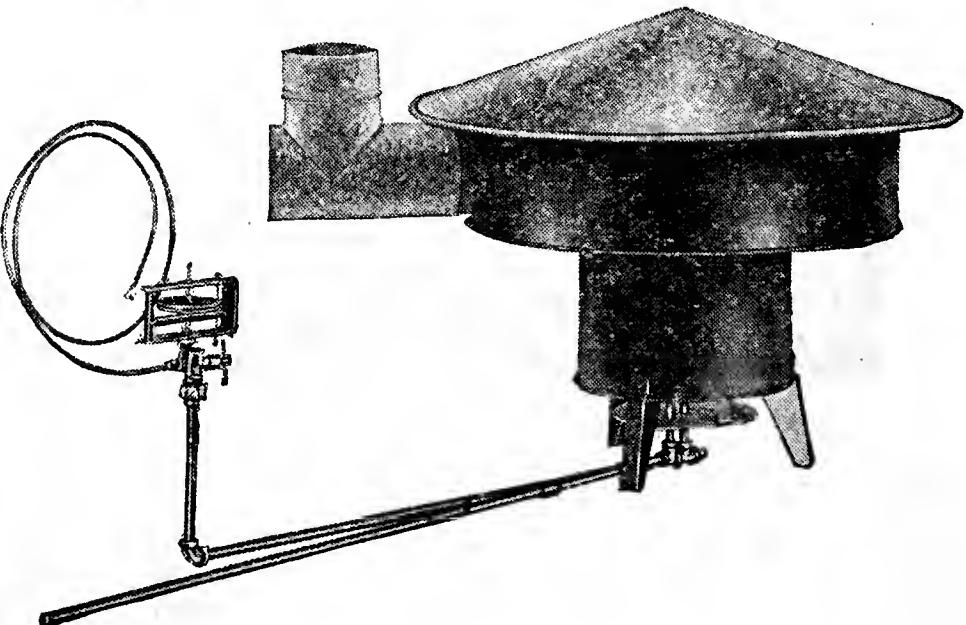
Simple oil burner of rigid construction. Wire edged canopy and brazed oil lines. No leveling or priming.

32 in. Canopy .....	\$ 9.50
42 in. Canopy .....	10.50
52 in. Canopy .....	11.50

### JUNIOR ELECTRIC

A small electric brooder that can be used for brooding a few chicks in the back yard.

22 in. canopy .....	\$3.25
30 in. canopy .....	6.50



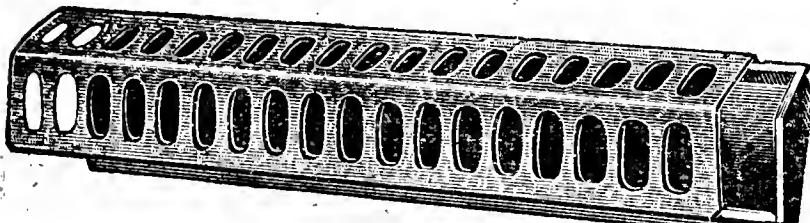
## POULTRY SUPPLIES—Continued



**MOE'S ECLIPSE FEEDERS**—Heavily tinned and can be used for buttermilk or mash feeding. Not Postpaid.

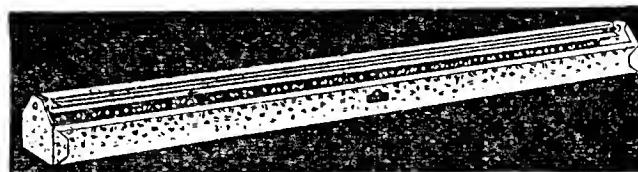
20 inch feeder ..... 35c

### MOE'S NEW STYLE FEEDERS



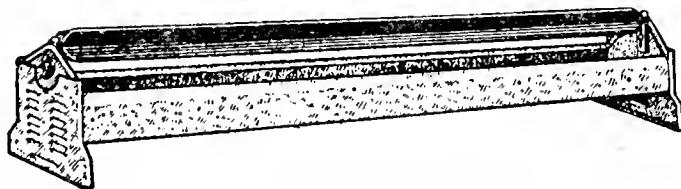
A large capacity chick feeder. Not Prepaid.  
36 in. feeder.....80c    24 in. feeder.....60c

### LINCOLN DeLUXE CHICK FEEDERS



**4-Fin Metal Adjustable Revolving Reel. Adjustable Metal Legs**—All steel baby chick feeder. The open top revolving reel feeders are the most sanitary, most popular on the market today. Made of heavy galvanized steel. The ends are welded on. The galvanized steel reel is adjustable to two positions. Add Postage.

No.	Weight	Length	Price
41	2 lb.	24 in.	35c
42	3 lb.	36 in.	50c



They are made of the best grade galvanized iron. The ends are seamed to the trough and are water tight and can be used for water as well as feed. The adjustable legs are made of heavy galvanized iron and hold the trough in any position from  $1\frac{1}{4}$  to 3 inches off the floor. Add Postage.

No.	Weight	Length	Price
140	3 lb.	24 in.	60c
142	4 lb.	36 in.	85c
143	6 lb.	48 in.	\$1.10



### LARGE CAPACITY FEEDER

With Metal Revolving Reel for Growing Chicks. Add Postage.

No.	Weight	Length	Price
43	7 lb.	3 ft.	\$1.30
44	8 lb.	5 ft.	1.80

### WATER FOUNTAIN

New large capacity chick and growing pullet water fountain. Not Postpaid.

2 gal. ..... 95c



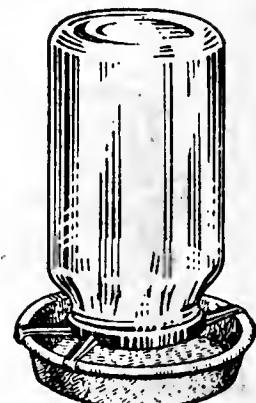
### MOE'S STAR FOUNTAINS

Fits any Mason jar and can be used with either quart or half gallon jars. Chicks cannot get wet in this fountain. Not Postpaid.

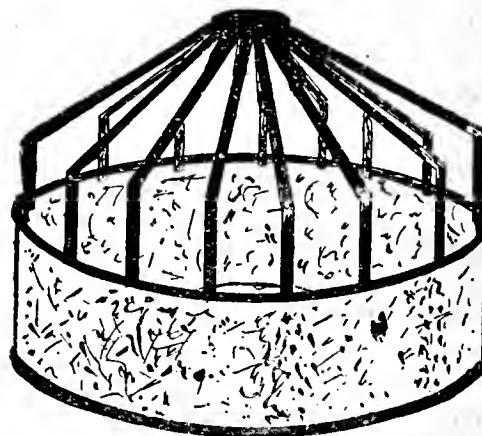
Each	.....	8c
6 for	.....	40c
Dozen	.....	75c

### LINCOLN GLASS FRUIT JAR FOUNTAIN

The drinking pan or saucer is of heavy glass. A heavy spring clip into which the jar screws, snaps onto the glass dish. It is ideal for feeding buttermilk or medicated water. 15c each. Same in galvanized iron, 10c each. Postage extra.



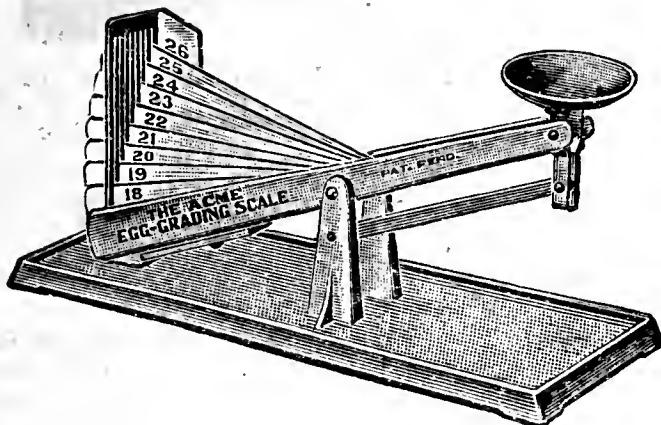
### LINCOLN GRILL TOP FOUNTAIN



An inexpensive yet modern sanitary drinking pan for grown birds. The heavy wire cone shaped grill prevents roosting on the pan and keeps birds from getting into the pan. Capacity of pan four gallons. Pan is  $15\frac{1}{2}$  inches in diameter,  $5\frac{1}{4}$  inches deep. Pan made of 26 gauge galvanized steel. Weight 4 lbs. \$1.35 each. Postage Extra.

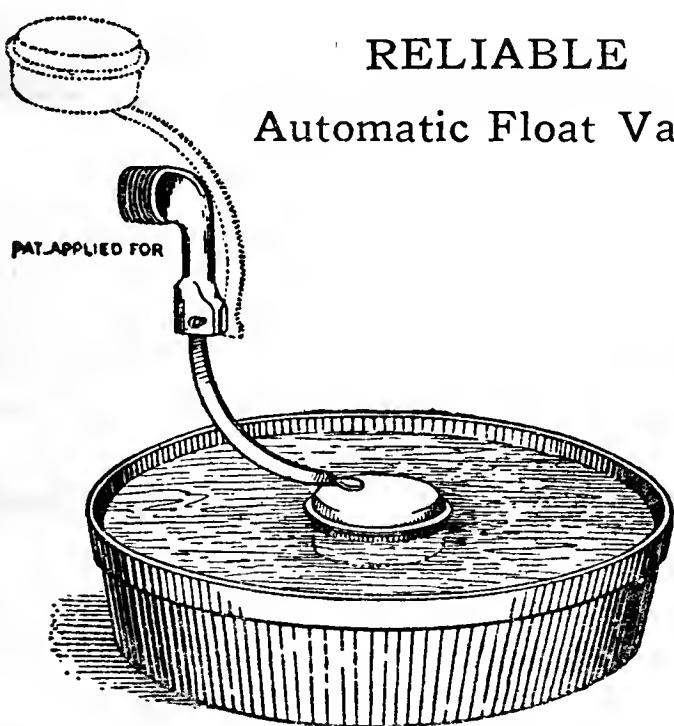
## POULTRY SUPPLIES—Continued

### THE ACME EGG GRADING SCALE



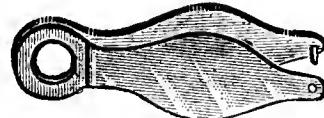
No. 2—Adapted to the Pacific Coast. Grades 18-19-20-21-22-23-24-25-26 oz. Made entirely of aluminum, the Acme Egg Grading Scale is rust proof and practically indestructible. The operation of the scale is so simple that a child can do the grading. By placing an egg in the cup the beam will automatically adjust itself. The lowest visible number on the blades will indicate the weight in ounces of one dozen like eggs. Each \$2.85, postpaid, \$2.95.

### RELIABLE Automatic Float Valve



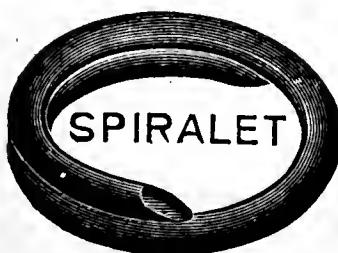
It is made entirely of brass and copper, which makes it rust proof, and it will wear indefinitely. It is easily installed, requires no adjustments and will work under any water pressure. Each, \$1.00, postpaid, \$1.10.

**TOE PUNCH**—Popular for marking baby chicks  
Each 20c.



### SPIRAL LEG BANDS

**Hen, Pullet and Chick Sizes** — Comes in assorted colors: in ordering state color preferred. 50 in bundle. Postpaid. **1c each: 50 for 35c; 100 for 65c.**

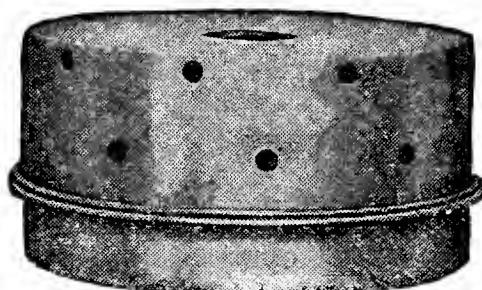


**BANDETTES**—Used where numbering is desired: Easy to place on chickens. Postpaid. Boxes, 25 per box ..... \$ .50  
100 for ..... 1.85



**LEG BANDS**—Numbered. Aluminum. Adjustable. Per doz. 15c; 25 for 25c; 50 for 40c; 100 for 75c.

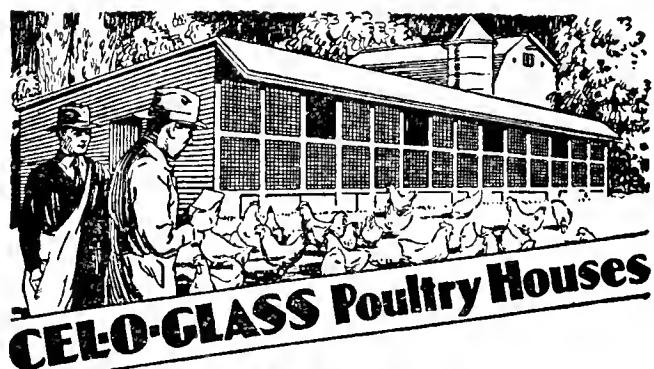
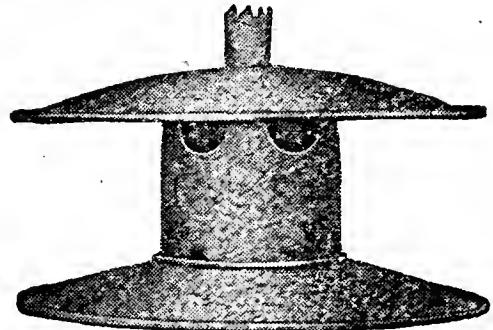
### LITTLE PUTNAM STOVE



it can be used with a can, crock or fountain. Non-explosive, if tipped over or buried in litter it will go out. Complete directions for making oat sprouter. Postpaid \$1.90.

### PUTNAM BROODER

You can make your own brooder out of a box, for accommodating 25 to 60 chicks, by using this heater. It requires filling but once a week —no other attention needed. Uses less than a gallon of oil a month. Acts like a fireplace, carrying foul air out and drawing in fresh air, perfect ventilation automatically. Heat radiates from above onto backs of chicks. Can be operated anywhere, in the house or out of doors. Directions for making brooder enclosed. Postpaid \$4.75



### CELO-GLASS Poultry Houses

### are Health Houses

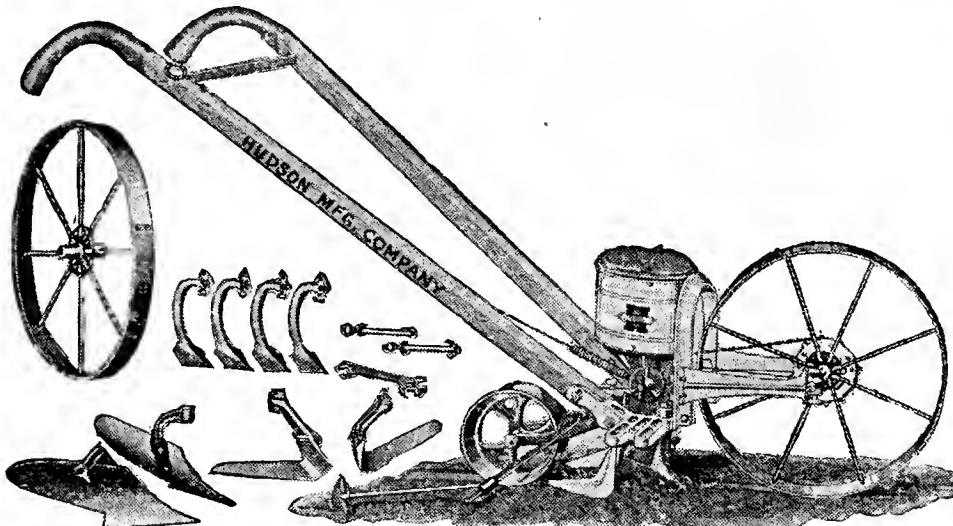
Better than glass for poultry houses. Comes in rolls, 3 by 100 feet. Sold by running foot, 1x3 ft. Not Postpaid. Ft. 40c; per roll \$38.00.

## GENUINE WEATHERPROOF UNBREAKABLE FLEX-O-GLASS

It admits more Ultra-Violet rays of the sun than any other glass substitute. These life-giving rays are kept out of buildings by plain glass and yet they are essential to health, productivity and early maturity. It LASTS—there is no metal in it to rust. Its special mineral filling prevents it from rotting and peeling. It is windproof and does not catch dirt. Gives better light than glass. Per yard, 30c; 10 yards or over, 28c per yard. Postpaid.

### HUDSON HILL AND DRILL SEEDER

Single or Double Wheel Cultivator. Six Tools in One

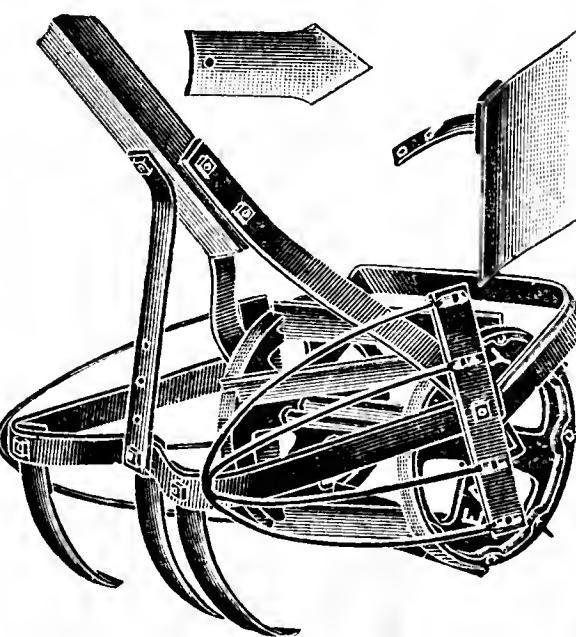


The 201 Seeder and cultivator is a combination outfit comprising six tools in one. May be used as a hill seeder; drill seeder; a double wheel cultivator, plow or hoe; or a single wheel cultivator, plow or hoe. It has all the equipment to serve the gardener from the initial seeding until final cultivation. It is readily converted from one use to another, the change from seeder to cultivator being accomplished by removing two bolts, one standard frame being used throughout. The outfit then become a cultivator, the sturdy high arch frame adapting it for use either astride or between the rows. Complete, wt. 56 lbs. \$15.50. Seeder only, wt. 44 lbs. \$14.

**HUDSON GARDEN PLOWS, Adjustable**—The No. 246 Plow is a favorite with the truck farmer or gardener who has need of separate machines for seeding and cultivating. Frame is steel with adjustments for varying pitch of the tools. Handles are seasoned hardwood reinforced at tips with steel straps to prevent splitting. Adjustable in height. Wheel is 24 inches high with 1½ inch tire, insuring easy traction. Wt. 19½ lbs. \$4.25 each.

### THE EASY GARDEN RAISER

**A 4-Purpose Garden Machine**—The EASY Garden Raiser is the ideal garden machine. It operates ten times faster than a hoe. It is infinitely more easy to use. It does a much better job. It enables the garden owner to rapidly and thoroughly cultivate his garden at frequent intervals, particularly after every rain. Standard, 8½ inch, \$6.50; Perfect, 10½ inch, \$6.95. F. O. B. Lewiston or Spokane.



### CYCLONE SEED SOWER

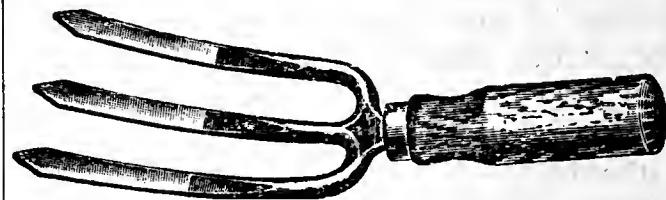
Well known for its accuracy in sowing nearly all kinds of seeds, fertilizers, etc., broadcast. Carried comfortably by strap over shoulder, not around neck. Built right and works right. Directions. Price \$2.25; 25c more will deliver to 4th zone.



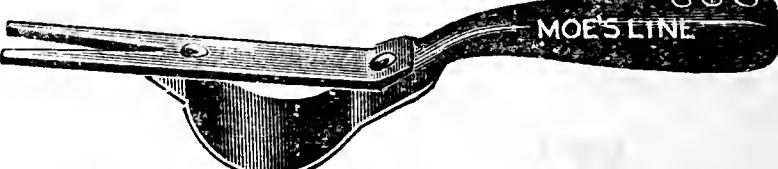
**MOE'S HAND WEEDER**—One of the handiest tools yet devised for weeding and thinning out. 20c, postpaid 25c.



**MOE'S STEEL GARDEN WEEDERS**—No. 82. One-piece pressed steel. Handsomely finished in black baked enamel. Has five steel fingers and is one of the most useful and handiest garden tools made. Ground and polished points. 20c, Postpaid, 25c.



**SPADING FORK**—No. 30. Forged steel, 3 tine, 11 in., wt. 1 lb. 50c; postpaid 60c.



**NO. 89 ALL STEEL LAWN WEEDER**—Has a slotted steel prong which holds the weed firmly and a slight pressure on the handle removes it completely with the root. Easy to use and does not mar the lawn. Finely finished in baked enamel. Wt. 1 lb. 30c; postpaid, 35c.



**ASPARAGUS KNIFE**—Has long shank and blade for cutting the tips below the surface. 45c; postpaid, 55c.



**NO. 830. WEEDE**—Village Blacksmith brand, wt. 1 lb. Not prepaid. 50c.

### TROWELS



**No. 80**—Garden Trowel, one-piece pressed steel; handsomely finished in black baked enamel; length of blade 6 inches ground and polished points. 20c each; postpaid, 25c.



**NO. 81**—Transplanting trowel; one-piece pressed steel; handsomely finished in black and baked enamel; length of blade 6 inches; width 1¾ inches; ground and polished points. 20c; postpaid, 25c.

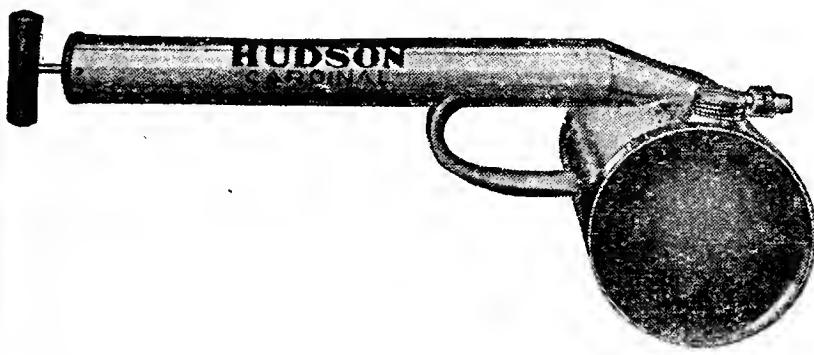
## Hudson Sprayers

The **HUDSON ECONOMY** is a high quality, well made compressed air sprayer at a very moderate price. Tank holds four gallons.



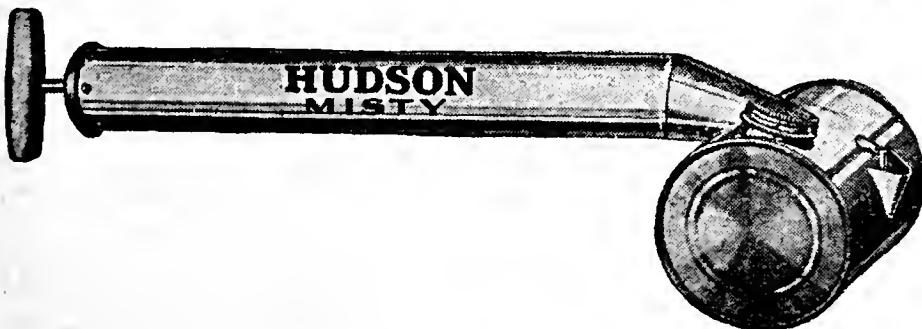
Handle and top are malleable. Pump is seamless brass tube. Discharge equipment includes hose, brass extension, automatic shut-off and brass nozzle. Handles Arsenate of Lead, Paris Green, and other liquid insecticides. No. 125 Economy, Wt. 11 lbs. \$5.00. Same with copper tank, \$7.00.

**HUDSON STERLING SPRAYER**—An outstanding value in the field of clamp top type sprayers. Very efficient in the application of whitewash, cold water paints, insecticides, fungicides, disinfectants. A practical pattern for the farmer, fruit grower, truck gardener, poultryman, hog raiser, also for use around estates, cemeteries, parks, club houses, etc. Each \$4.20. Copper tank \$6.00.



### HUDSON CARDINAL SPRAYER (Continuous)

—The Hudson Cardinal Sprayer is designed for use with fly oils in the dairy barn, milk house, creamery, etc.; preparations to eradicate lice, mites and diseases in the poultry house; oils and insecticides in the hog pen; insecticides, disinfectants, deodorants and similar preparations in schools, theatres, clubs, office buildings, hotels, restaurants and similar places. Produces a forceful, penetrating spray necessary for the correct application of such preparations. Adjustable nozzle. Each \$1.50.

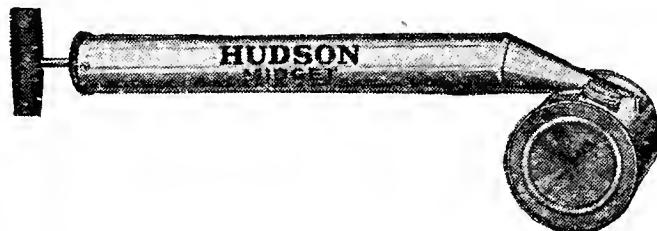


**HUDSON BANTAM SPRAYER (Formerly Household)**. Glass Jar Sprayer—The Bantam is particularly designed for household uses. Handles fly oils, moth preventives, and all household insecticides and disinfectants very well. Compact, sturdy construction. Ordinary ink bottle detaches for convenient filling.

**Pump.** 1 1/4 inches diameter, 7 inches long. Attaches directly to can screw and siphon tube.

**Tank.** An ordinary ink bottle with screw top.

No. G-2 Bantam. Tin. Each ..... 15c  
Postage 12c extra



The **Midget** is a very efficient sprayer for use around the home and small garden. Holds 3/4 pint. Made of heavy tin. Has 10 inch pump, set into tank. Handles all insecticides and fungicides.

No. 202 Midget, wt. 1 lb. Each ..... 30c  
Postage 12c Extra



**HUDSON CADET DUSTER**—The Hudson Cadet Duster is adapted for use with all insect powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant, and various bug powders. It is frequently used around restaurants, soda fountains, offices, stores, etc. 50c postpaid.

**HUDSON MAJOR DUSTER** — Handles Paris Green, Arsenate of Lead, Calcium Arsenate and similar poisons. Used in the home garden, on truck plots, in cotton, potato and tobacco fields, in the dairy barn, around the poultry house, etc. \$1.00.

The **Misty** is a very popular sprayer for home owners, back yard gardeners, etc. Holds 1 quart. Made of heavy tin. Handles all spray liquids. Tank has large filler opening. Pump is set into tank to insure rigidity.

No. 452 Misty, wt. 2 lbs. Each ..... 40c  
Postage 15c extra

# Baby Chicks

## NOW YOU CAN ORDER BABY PULLETS!

New Japanese method of sex determination—Last season, reliability was demonstrated by sexing 25,000 chix in four days with a 99.7% accurate determination. You need no longer to feed a bunch of Cockerels, or if you desire, they can be had separate from the pullets.

### BABY PULLETS

We guarantee 90% Pullets

	Per 25	Per 50	Per 100
White Leghorns .....	\$5.50	\$10.50	\$20.00
Rhode Island Reds.....	6.00	11.50	22.00
Barred Rocks .....	6.00	11.50	22.00
Buff Orpingtons .....	7.00	13.50	26.00
Black Jersey Giants.....	7.00	13.50	26.00
Black Minorcas .....	7.00	13.50	26.00
White Minorcas .....	7.00	13.50	26.00
White Wyandottes .....	7.00	13.50	26.00
Brown Leghorns .....	6.00	11.50	22.00
Anconas .....	6.00	11.50	22.00

### LEE'S BABY CHICKS

#### Day Old Chicks

	Per 25	Per 50	Per 100
White Leghorns .....	\$3.00	\$5.50	\$10.00
Rhode Island Reds .....	3.25	6.00	11.00
Barred Rocks .....	3.25	6.00	11.00
Buff Orpingtons .....	3.75	7.00	13.00
Black Jersey Giants .....	3.75	7.00	13.00
Black Minorcas .....	3.75	7.00	13.00
White Minorcas .....	3.75	7.00	13.00
White Wyandottes .....	3.75	7.00	13.00
Brown Leghorns .....	3.25	6.00	11.00
Anconas .....	3.25	6.00	11.00
Heavy Breeds, Mixed....	2.50	4.50	8.00
Light Breeds, Mixed....	2.25	4.00	7.00

**REGULAR MATING CHICKS** — We can furnish Special Mating Chicks at 12c per chick higher.

#### PREPAID 100% LIVE DELIVERY

The earlier you can order, the more certain you will be able to get your chicks when you want them.

We Carry a Full Line of Goodyear Garden Hose  
at Lowest Prices

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# PLANTING TABLE

## VEGETABLES

## FIELD SEED

KIND OF VEGETABLE	Seed or roots required for 100 ft. of drill	One Acre	Distance for Plants Rows Apart		KIND OF CROP	Rate of Seeding per Acre
			Horse Cult.	Hand Cult.		
Asparagus Seed.....	1 oz.	5 lb.	30-36 in.	1-2 ft.	Alfalfa.....	8-12 lb.
Beans, Bush.....	1 lb.	25-40 lb.	30-36 in.	18-24 in.	Sweet Clover.....	10-15 lb.
Beans, Pole.....	½ lb.	20-35 lb.	3-4 ft.	3 ft.	Red Clover.....	8-12 lb.
Beets and Mangles	2 oz.	5-6 lb.	28-36 in	12-18 in.	Alsike Clover.....	3-6 lb.
Brussels Sprouts....	½ oz.	4-6 oz.	30-36 in	24-30 in.	White Dutch Clover..	2-4 lb.
Cabbage, Early.....	⅛ oz.	4-6 oz.	30-36 in.	24-30 in.	Winter Vetch.....	25-40 lb.
Cabbage, Late.....	⅛ oz.	4-6 oz.	30-40 in.	24-30 in.	Spring Vetch.....	40-50 lb.
Carrot.....	1 oz.	3-4 lb.	30-36 in.	18-24 in.	Rape.....	5-12 lb.
Cauliflower.....	⅛ oz.	2 oz.	30-36 in.	24-30 in.	Timothy .....	10-12 lb.
Celery.....	¼ oz.	4 oz.	3-5 ft.	18-36 in	Orchard .....	12-15 lb.
Corn, Sweet.....	¼ lb.	6-8 lb.	3-3½ ft.	2-3 ft.	Brome.....	12-16 lb.
Cucumber.....	½ oz.	2 lb.	4-6 ft.	4-6 ft.	Slender Wheat.....	12-15 lb.
Dill.....	1 oz.	3 lb.	30 in.	18-24 in	Meadow Fescue.....	15-18 lb.
Egg Plant.....	⅛ oz.	4 oz.	30-36 in.	24-30 in.	Red Top.....	6-8 lb.
Endive.....	1 oz.	2 lb.	30 in.	18 in.	Sudan.....	5-30 lb.
Kale, Dwarf.....	¼ oz.	1 lb.	30-36 in.	18-24 in.	Sunflower.....	10-20 lb.
Kohl Rabi.....	¼ oz.	1 lb.	30-36 in.	18-24 in.	Corn.....	8 lb.
Leek.....	½ oz.	4 lb.	30-36 in.	14-20 in.	Wheat.....	60-75 lb.
Lettuce.....	¼ oz.	1-2 lb.	30 in.	12-18 in.	Oat.....	60-75 lb.
Muskmelon.....	½ oz.	2-3 lb.	6-8 ft.	6 ft.	Barley.....	50-60 lb.
Watermelon.....	1 oz.	3-4 lb.	6-10 ft.	6 ft.	Rye.....	30-70 lb.
Mustard.....	1 oz.	1-2 lb.	30-36 in.	12-18 in.	Field Peas.....	90-150 lb.
Okra.....	2 oz.	8 lb.	4-5 ft.	3-4 ft.	Beans.....	25-40 lb.
Onion, Seed.....	½ oz.	4 lb.	24-36 in.	12-18 in.		
Onion, Sets.....	1 qt.	.....	24-36 in.	12-18 in.		
Parsley.....	½ oz.	3 lb.	30-36 in.	18-24 in.		
Parsnip.....	½ oz.	3 lb.	30-36 in.	18-24 in.		
Peas.....	2 lb.	60-120 lb.	30-36 in.	18-24 in.		
Peppers.....	⅛ oz.	2 oz.	30-36 in.	18-24 in.		
Potatoes, Irish.....	5-10 lb.	800-1000 lb.	30-36 in.	24-36 in.		
Pumpkin.....	½ oz.	3-4 lb.	4-8 ft.	3-6 ft.		
Radish.....	1 oz.	10 lb.	24-36 in.	12-18 in.		
Rhubarb, Seed.....	½ oz.	.....	3 ft.	3 ft.		
Rutabagas.....	½ oz.	2-3 lb.	30-36 in.	18-24 in.		
Salsify.....	2 oz.	10 lb.	30 in.	18-24 in		
Spinach.....	1 oz.	8-9 lb.	30-36 in.	12-24 in.		
Squash, Bush.....	½ oz.	3 lb.	3-4 ft.	4-8 ft.		
Squash, Late.....	½ oz.	2 lb.	4-8 ft.	4-8 ft.		
Tomato.....	⅛ oz.	2 oz.	3-5 ft.	3-4 ft.		
Turnips.....	½ oz.	2 lb.	24-36 in.	18-24 in.		

## PARCELS POST RATES

Zone	For First Pound	Each Pound Additional
1st	8c	1.1c
2nd	8c	1.1c
3rd	9c	2.0c
4th	10c	3.5c
5th	11c	5.3c
6th	12c	7.0c
7th	14c	9.0c
8th	15c	11.0c

In estimating parcel post charges be sure to make allowances for packing. A fraction of a pound takes full pound rate.

## Free with Your Seed Order

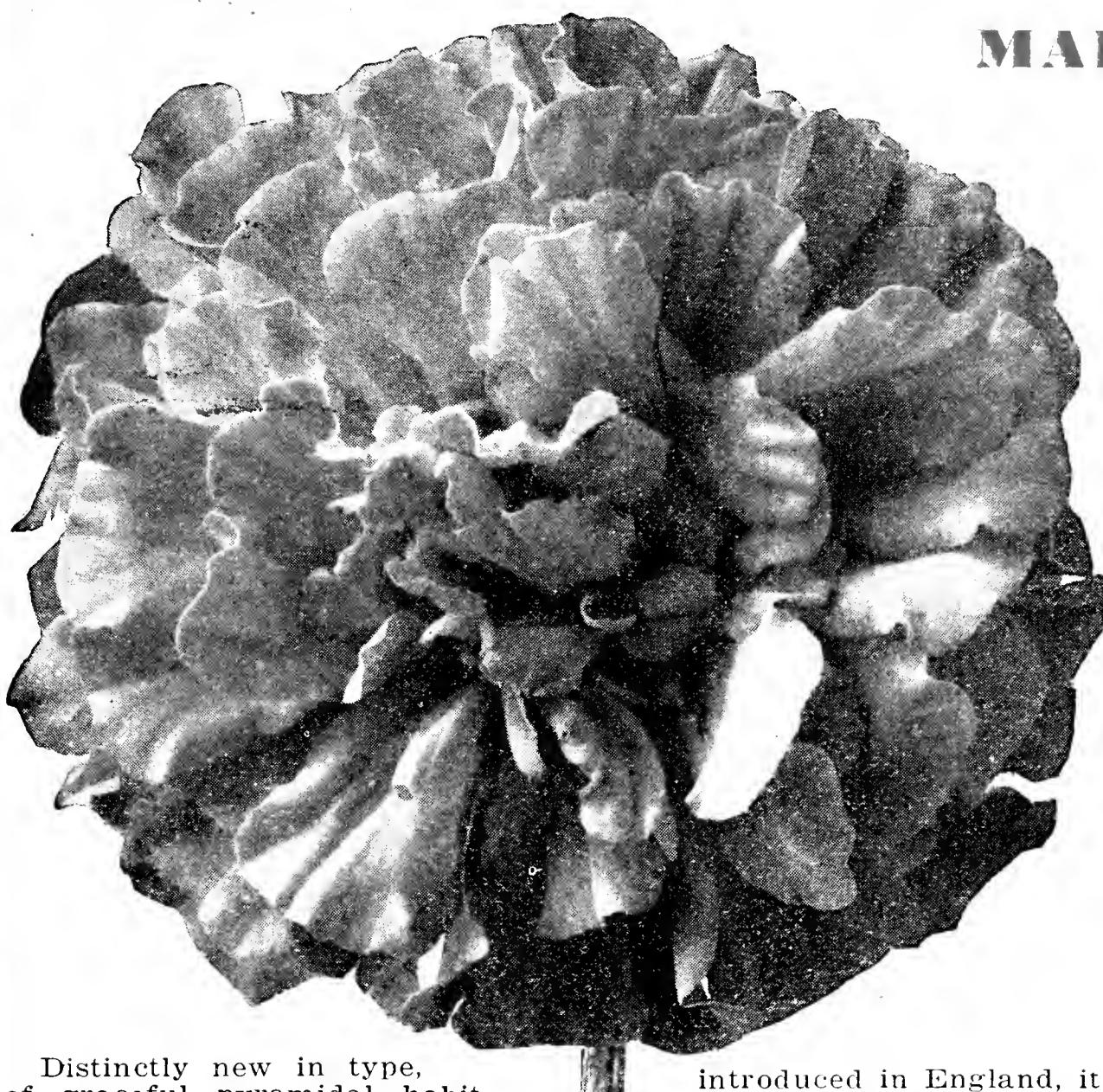
Following list of booklets contain 60 to 80 pages of valuable information. The price is 60c each or we will include one free with a \$2.50 order of vegetable or flower seeds, two with a \$4.00, and entire assortment with a \$15.00 order. The assortment will also be included free with a field seed order of \$50.00 or more. Only one set to a customer.

- |                       |  |                                 |
|-----------------------|--|---------------------------------|
| 1 Farm Poultry Pays   | 5 Sweet Clover                               | 8 Alfalfa                       |
| 2 Make the Garden Pay | 6 Our Pastures                               | 9 Soy Beans                     |
| 3 Diversified Farming | 7 Farm Prosperity                            | 10 Cow—The Mother of Prosperity |
| 4 Weeds Mean Waste    | Guaranteed                                   |                                 |
| 11 Young Folks        | 12 More and Hardier Alfalfa in the Northwest |                                 |

These Booklets contain practical information and demonstrations, and the Gardener, Farmer, Poultryman and Dairyman can obtain this information without cost.

MARIGOLD  
GUINEA  
GOLD

(Carnation  
Flowered  
California  
Gold)



Distinctly new in type, of graceful pyramidal habit, Guinea Gold produces a neat, compact plant, about  $2\frac{1}{2}$  feet high, literally covered with blossoms. The flowers, about  $2\frac{1}{2}$  inches across, are semi-double in character, and loosely ruffled. The color is a brilliant golden orange or California gold, the color much in demand by florists. When first

introduced in England, it was offered as a bedding plant, but in the United States it quickly became known as a florists' cut flower, and its success has been phenomenal. The absence of the characteristic marigold odor has been in its favor, as well as its excellent keeping qualities when used as a cut flower. Pkt. 15c.

A Double Sweet-scented  
Nasturtium

Double Nasturtiums are not new, but until lately have been propagated only by cuttings. Therefore it gives us great pleasure to offer again this unique novelty.

**GOLDEN GLEAM** forms a vigorous, large bush which throws out short runners, averaging eighteen inches. The flowers commence to come as soon as the plant nears complete development, and at the time it is in full bloom the entire plant, including the runners, is a blaze of color. The large, golden-yellow flowers average two and one-half to three inches across. They are borne on erect, stiff stems six inches in length. Consequently the flowers stand well above the foliage, an arrangement which adds immeasurably to the showy appearance of the plant.

An ordinary sized bouquet, when allowed to remain in a room for a short period of time will fill the room with fragrance. Postpaid. Pkt. 10c.

